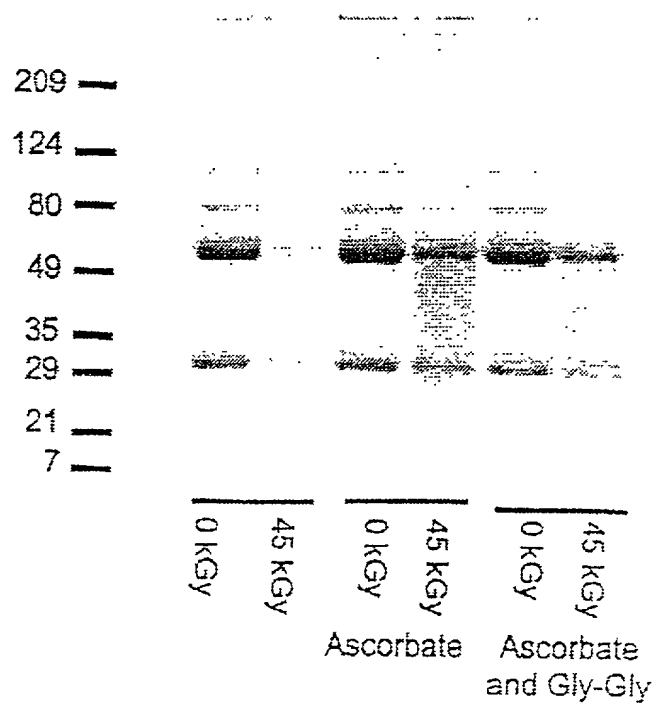


Fig 1A

Gamma
Irradiation of Liquid IGIV in the Absence or Presence of
Ascorbate Alone or in Addition to Gly-Gly

Liquid IGIV, Reduced 5-15%

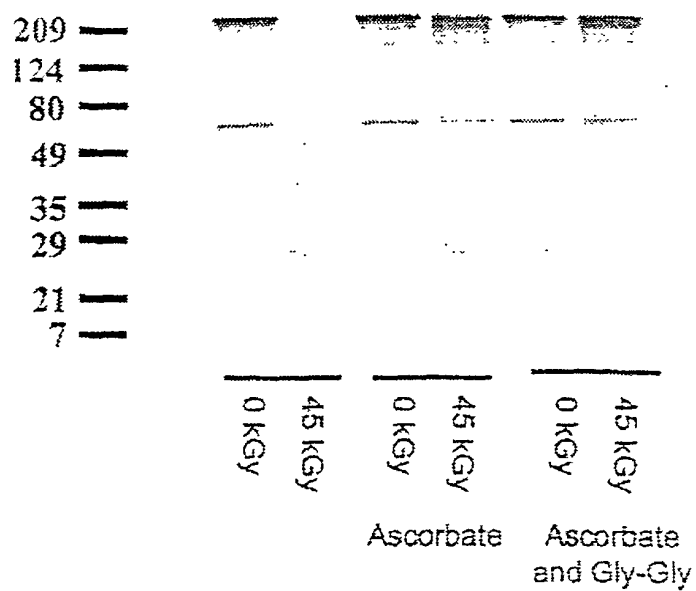


09073958 10404

Fig 1B

Gamma Irradiation of Liquid IGIV in the Absence or Presence of Ascorbate Alone or in Addition to Gly-Gly

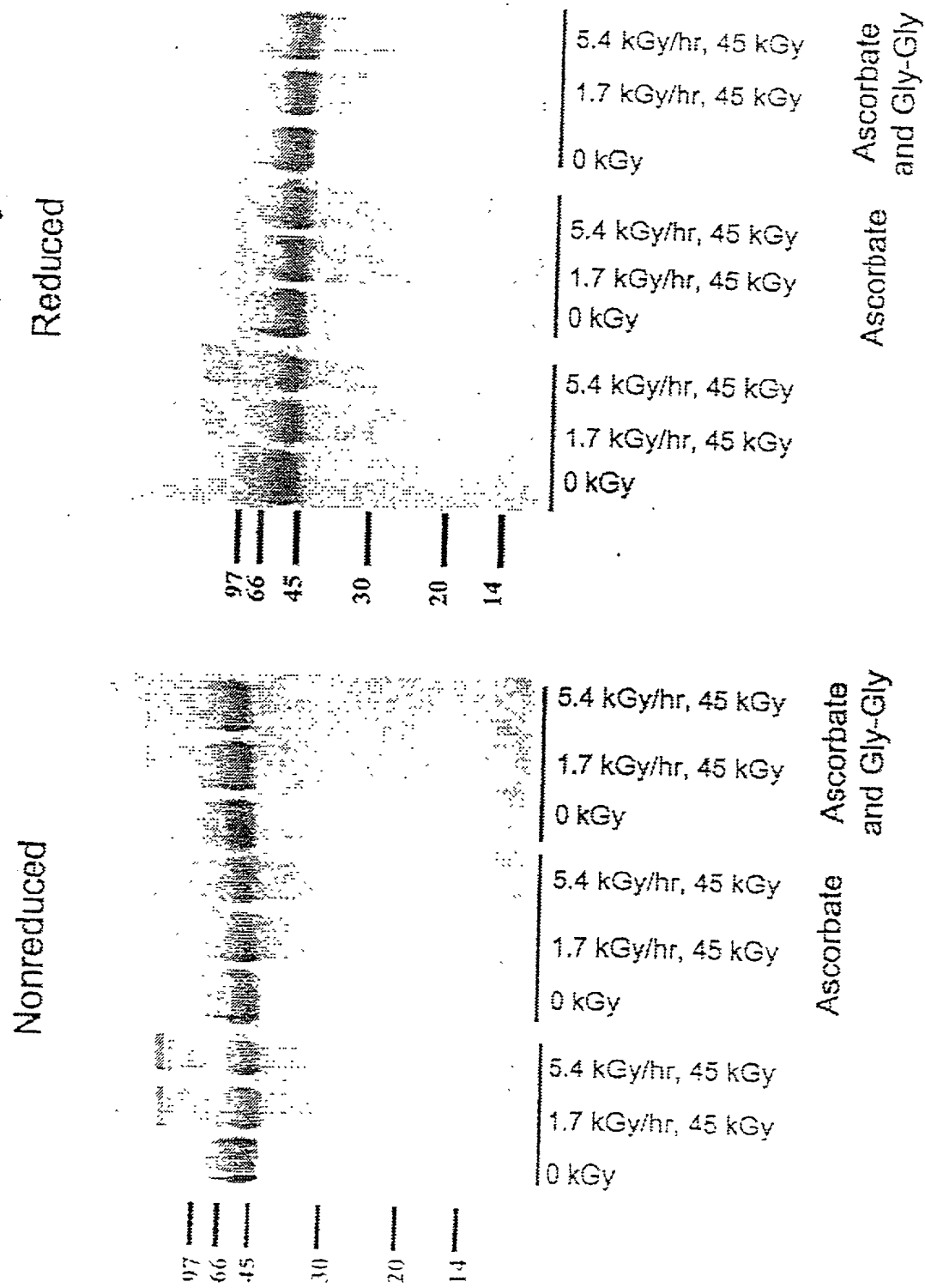
Liquid IGIV, Non-Reduced 5-15%



09073053 104104

Figure 2A

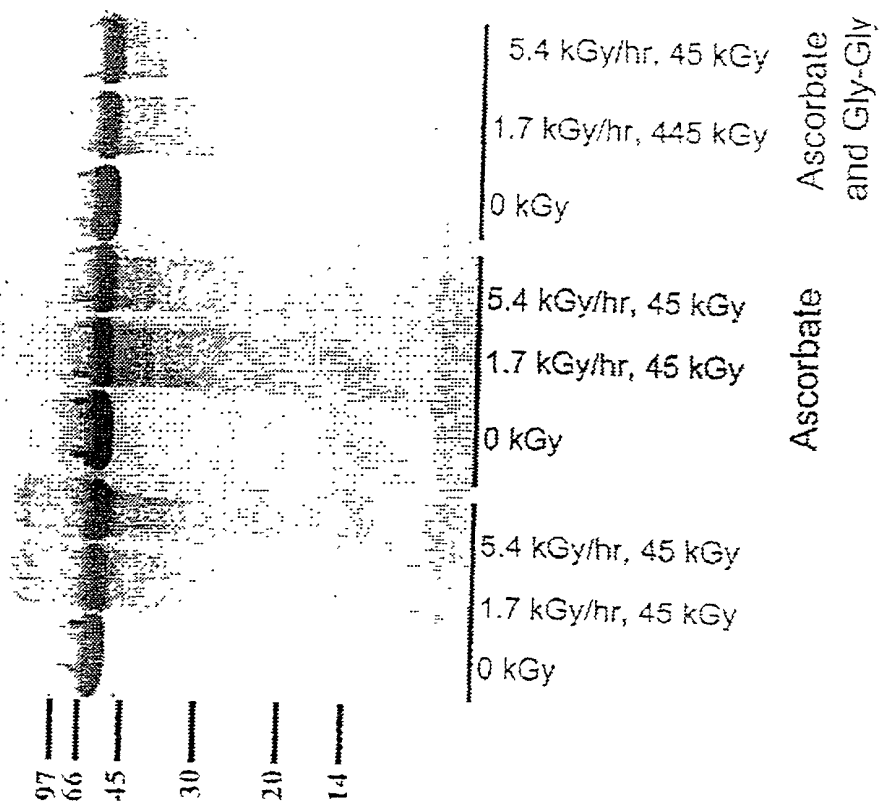
Gamma Irradiation of a Glycosidase In the Presence of Ascorbate and Gly-Gly



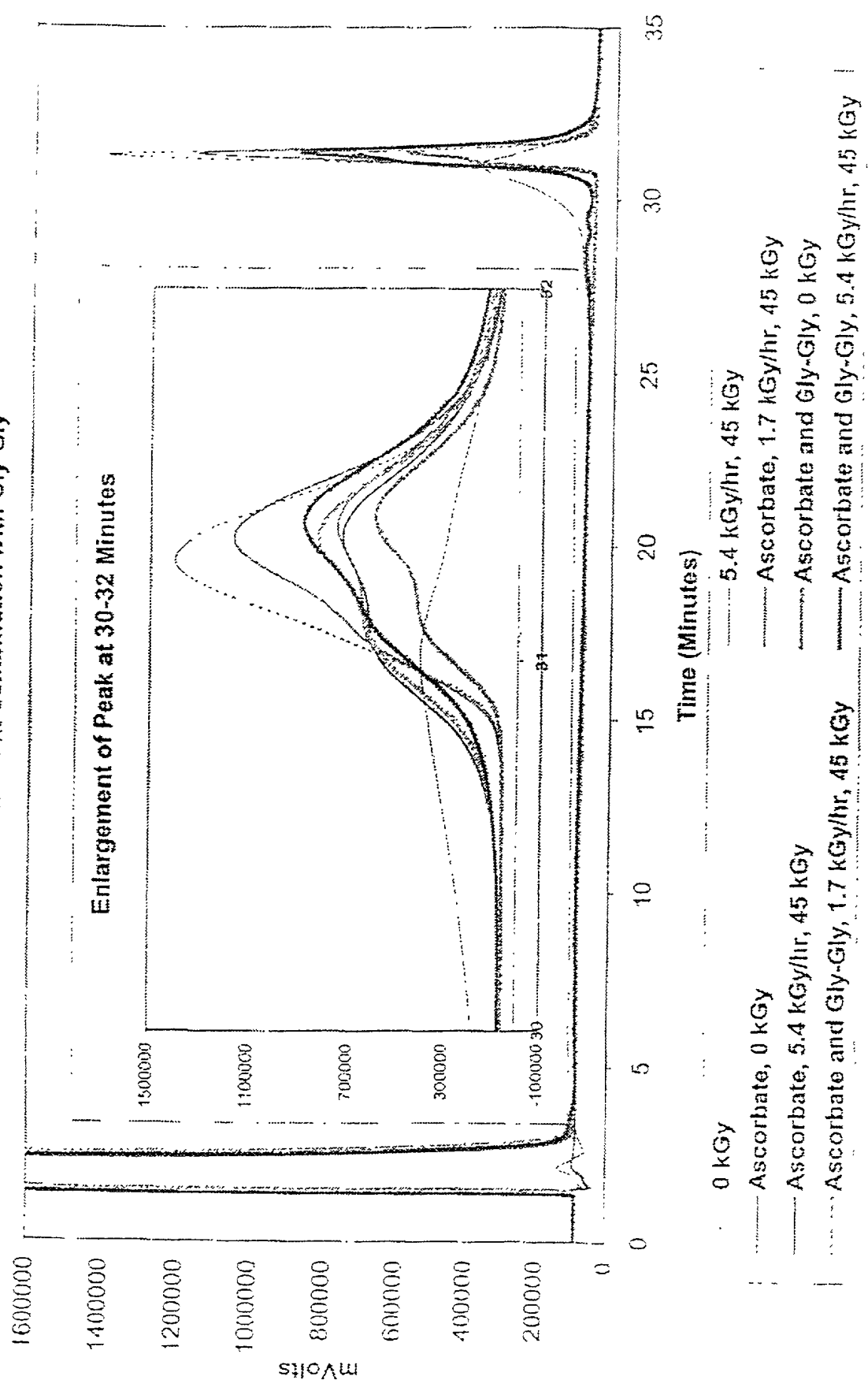
TOPTOT 880E2000

Gamma Irradiation of a Sulfatase In the Presence of Ascorbate and Gly-Gly

Reduced



Gamma Irradiation of a Galactosidase In the Presence or Absence of Ascorbate Alone or in Combination with Gly-Gly



Concentration of Ascorbate (mM)	0kGy (□)	Uric Acid, 0kGy (○)	45kGy (■)	Uric Acid, 45kGy (●)
0	0.0	0.0	0.0	0.0
25	0.1	1.4	0.1	0.1
50	0.2	1.4	0.2	0.2
75	0.3	1.4	0.3	0.3
100	1.5	1.4	0.6	0.3
125	1.4	1.4	0.5	0.3
150	1.3	1.4	0.4	0.3
175	1.2	1.4	0.3	0.3
200	1.1	1.4	0.2	0.3

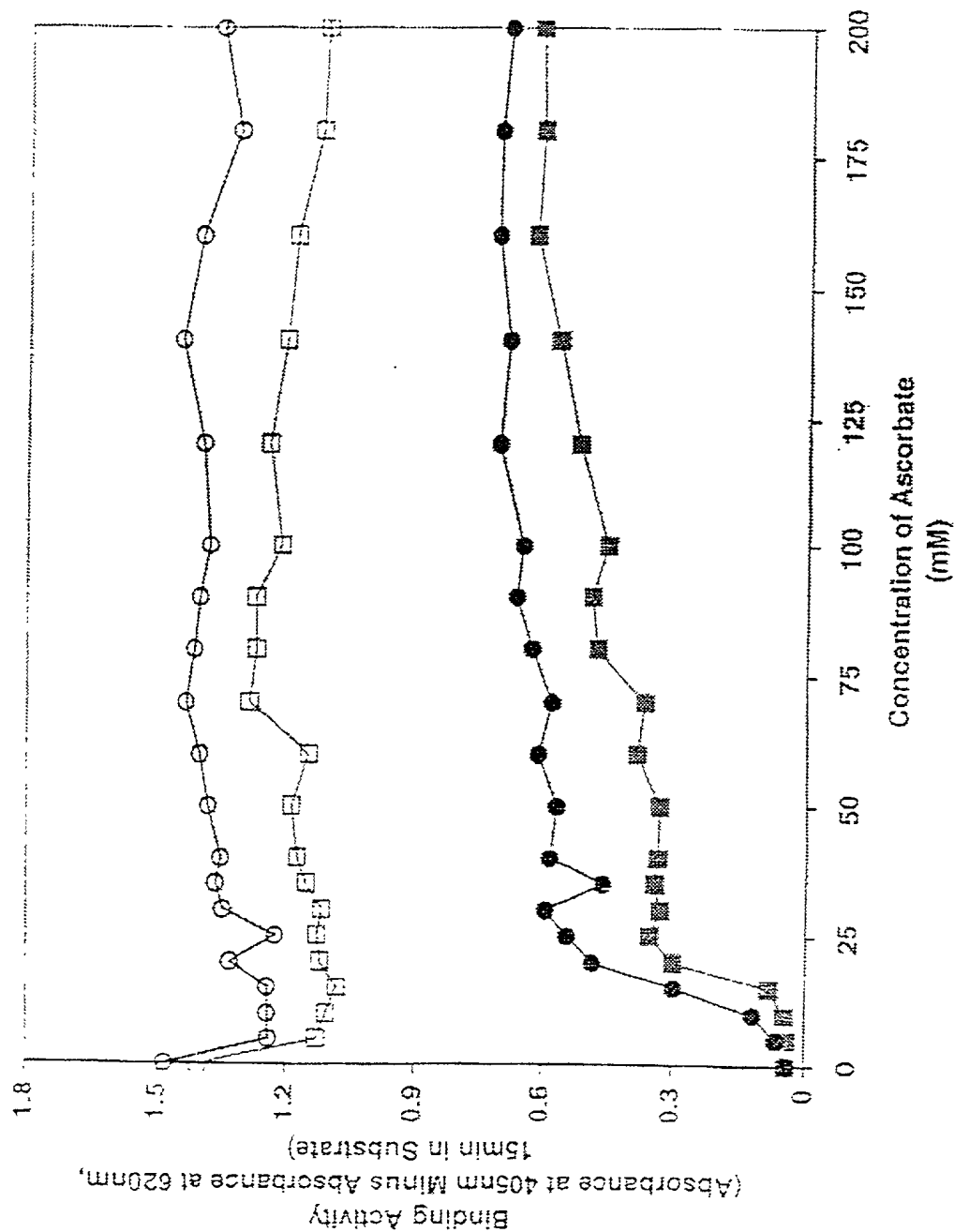


Figure 5

10.1016/S0531-1381(96)00060-0

Gamma Irradiation of Immobilized Anti-Insulin Monoclonal
Antibody with Varying Ascorbate Concentrations in the Presence or Absence of
2.25mM Uric Acid

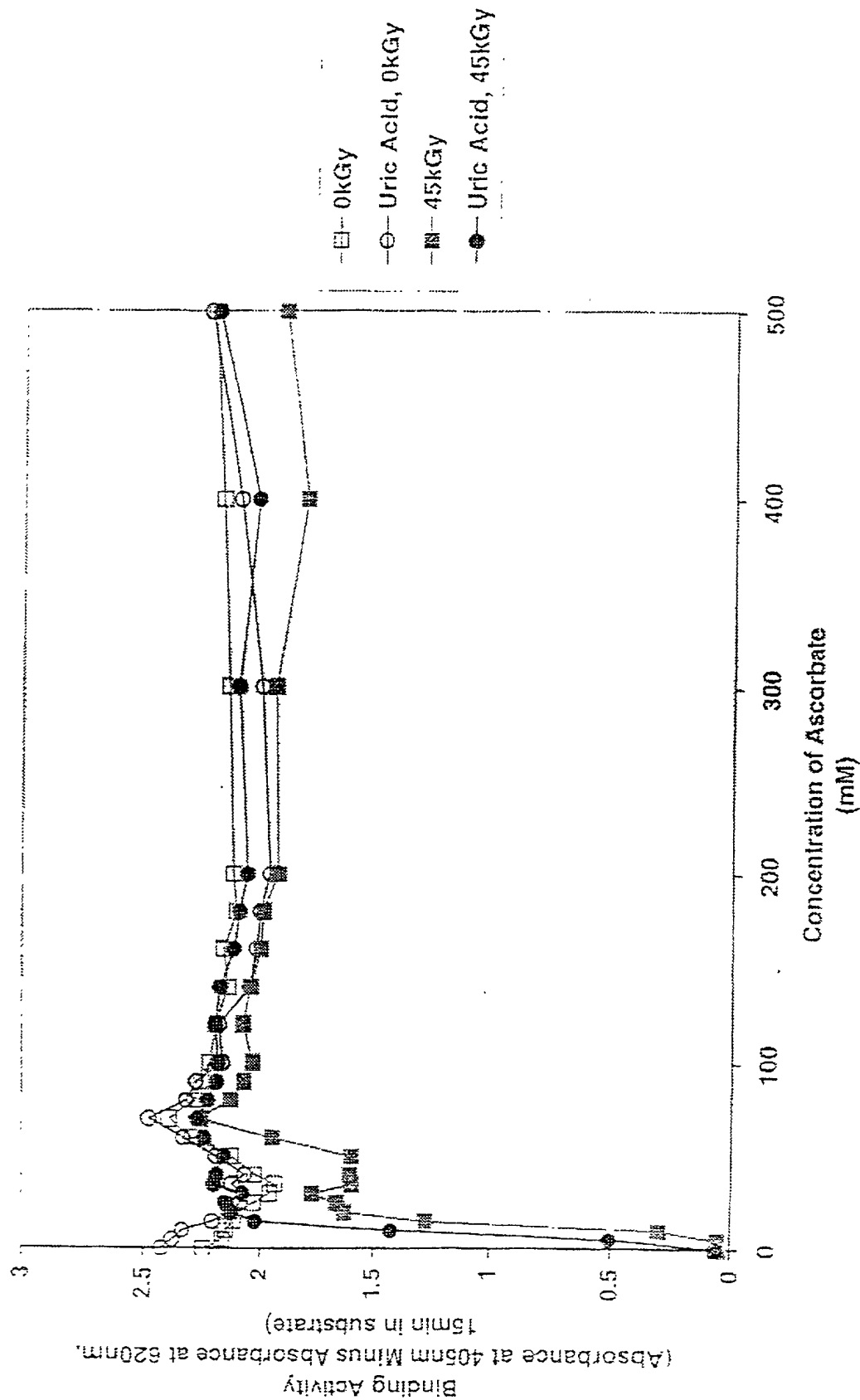
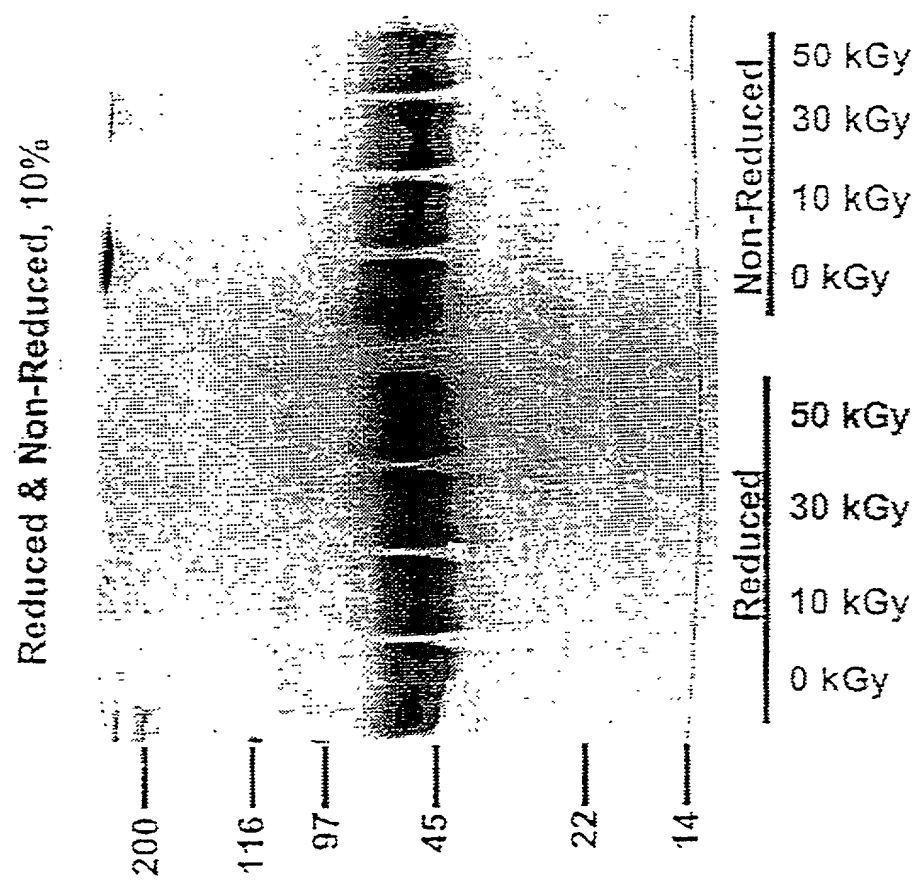


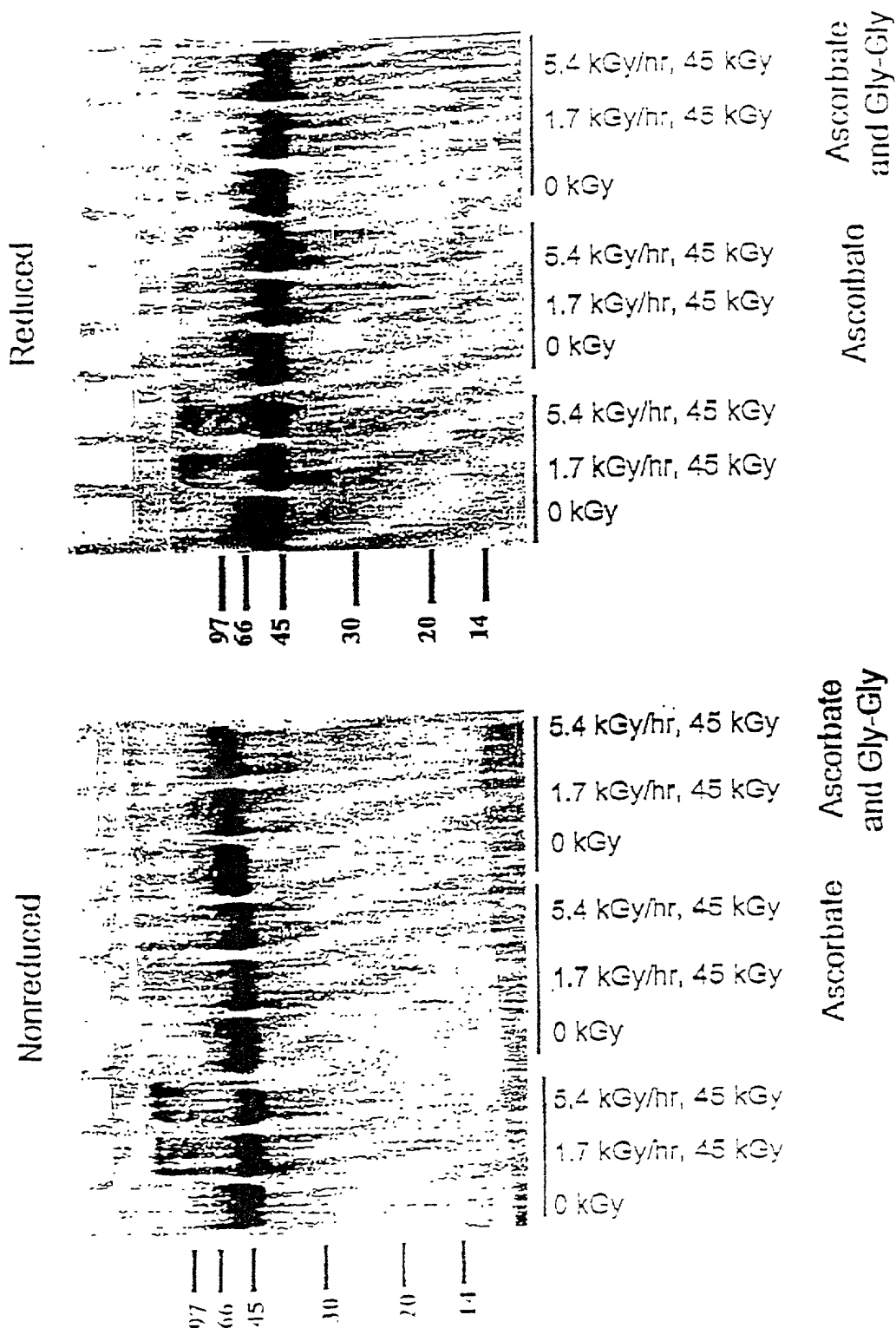
Figure 6

101101-355E2660

Gamma Irradiation of a Lyophilized Galactosidase
In the Presence of 200mM Ascorbate and 200mM Gly-Gly



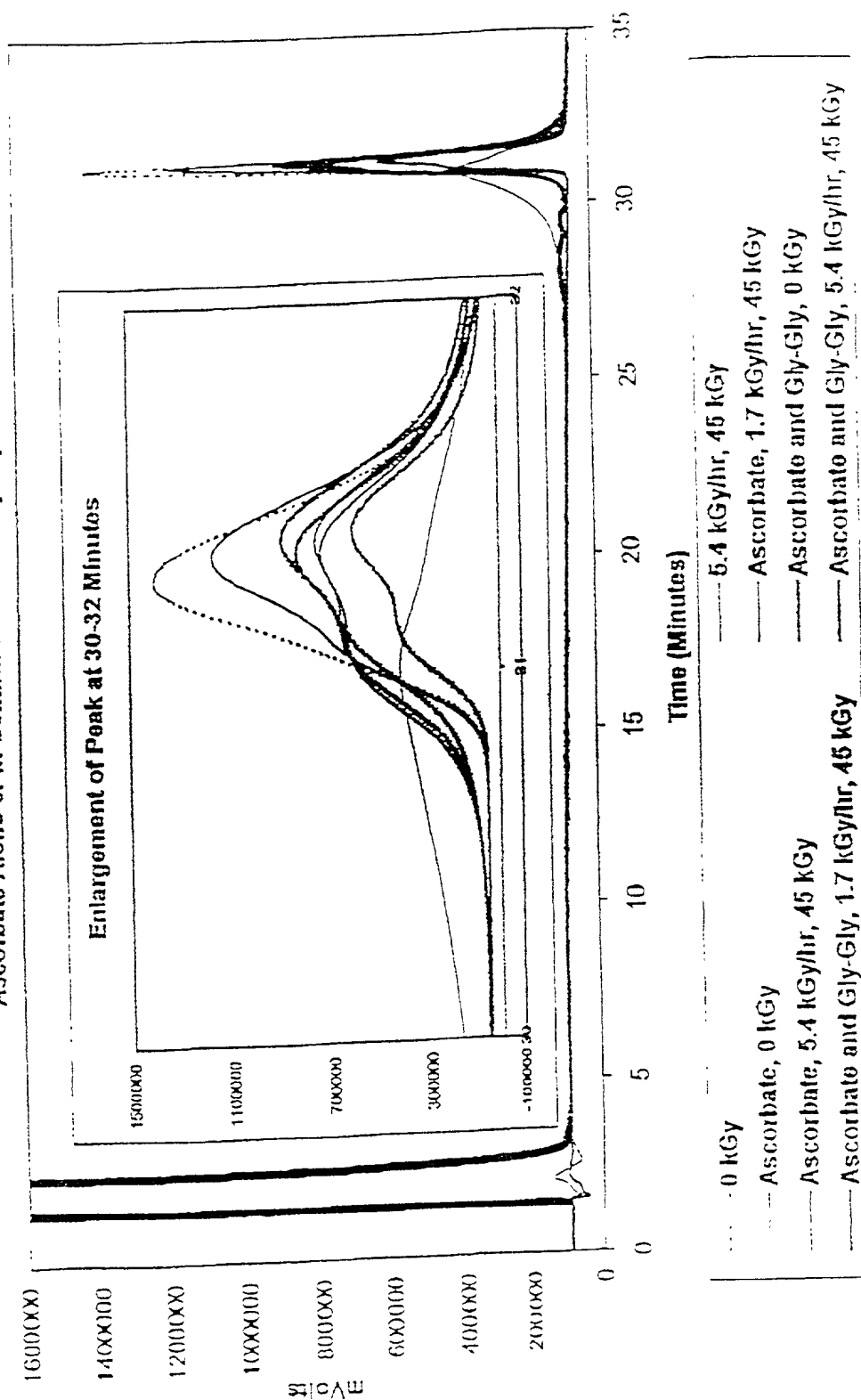
Gamma Irradiation of a Galactosidase in the Absence or Presence of Ascorbate Alone or in Combination with Gly-Gly



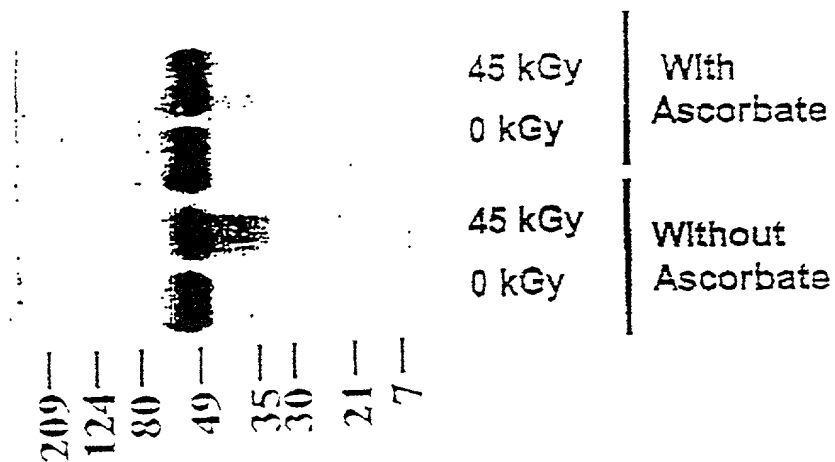
7A

7B

Gamma Irradiation of a Galactosidase in the Presence or Absence of Ascorbate Alone or in Combination with Gly-Gly



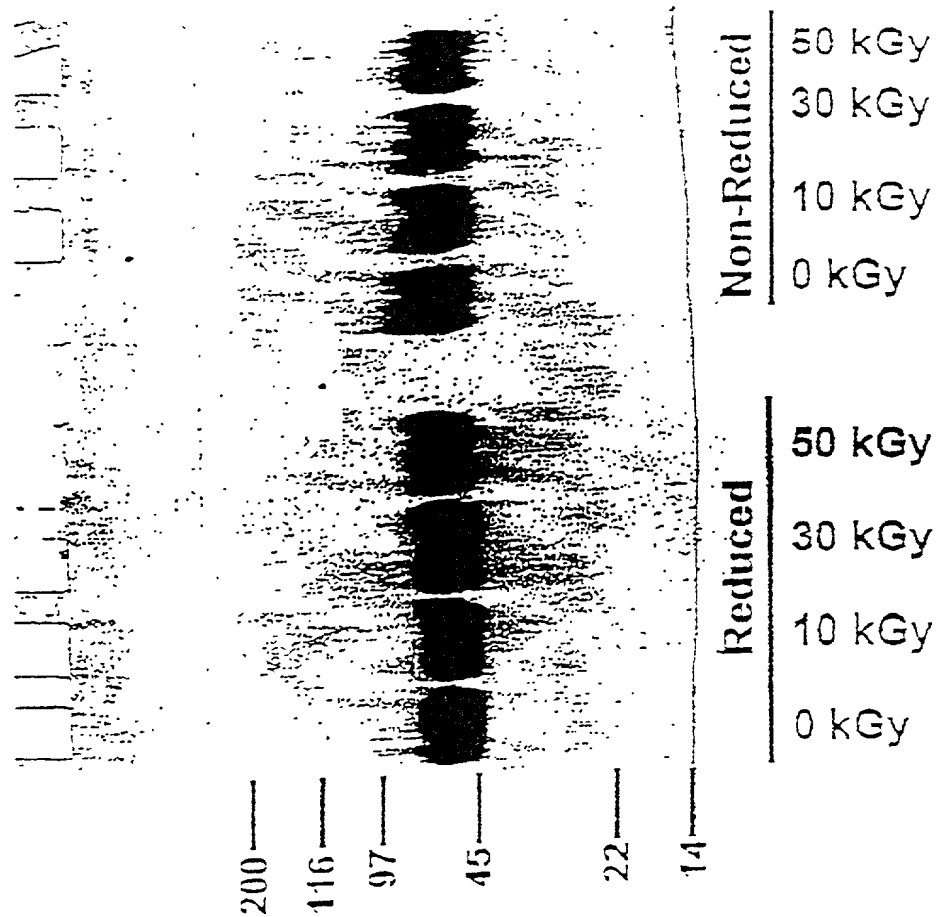
Gamma Irradiation of a Lyophilized Galactosidase in the Absence and Presence of 100mM Ascorbate



9

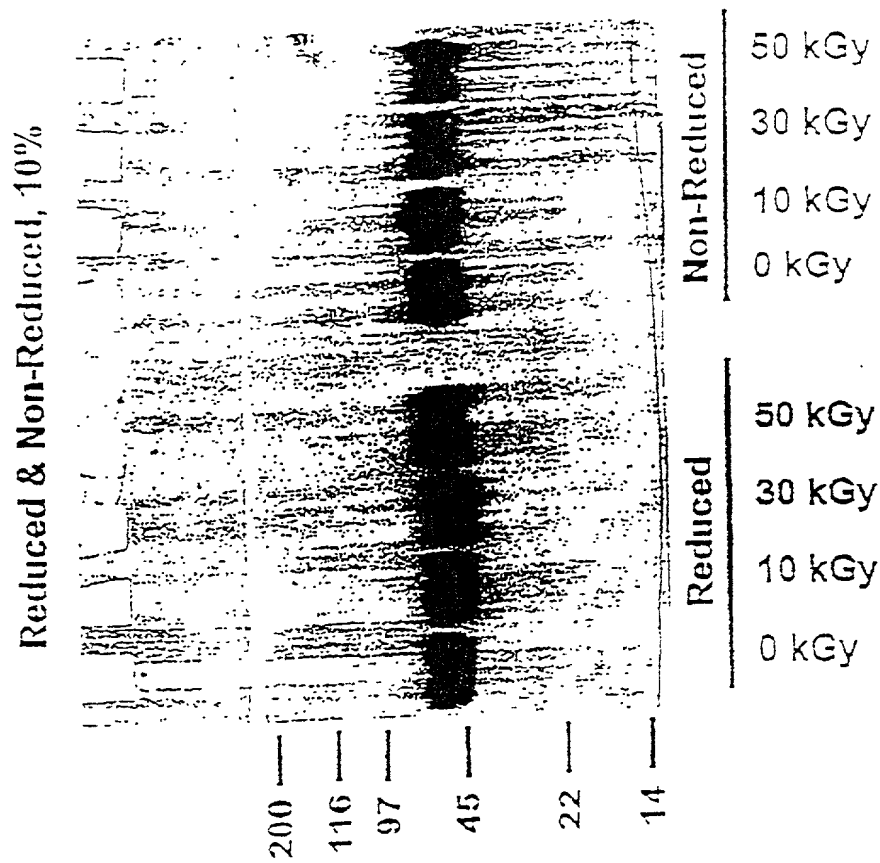
Gamma Irradiation of a Lyophilized Galactosidase In the Absence of Stabilizers

Reduced and Non-Reduced, 10%



10A

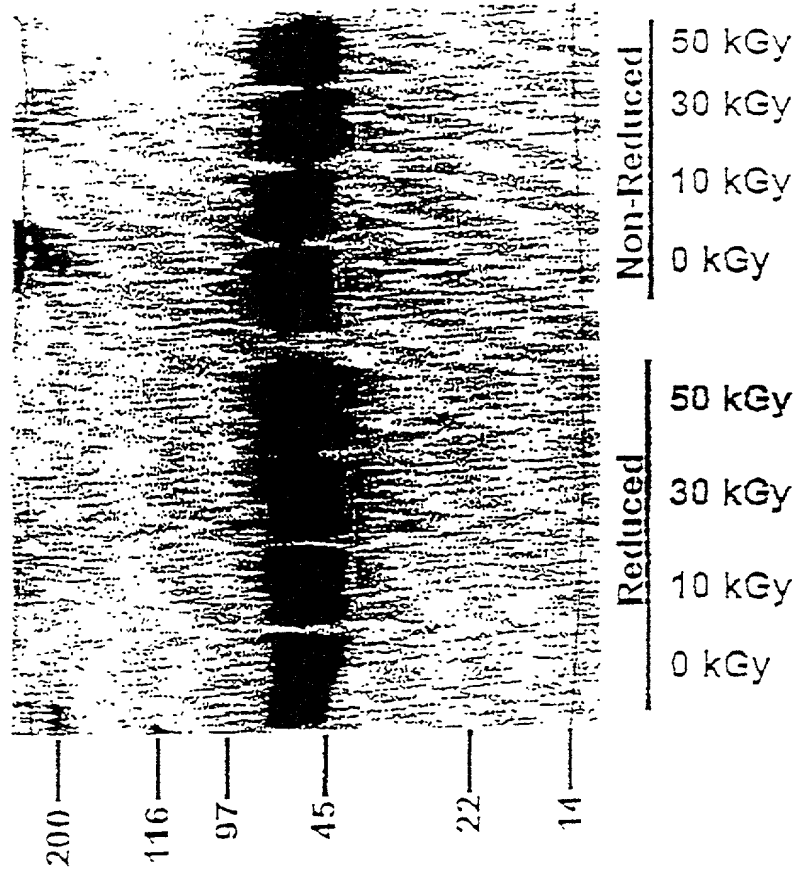
Gamma Irradiation of a Lyophilized Galactosidase In the Presence of 200mM Ascorbate



108

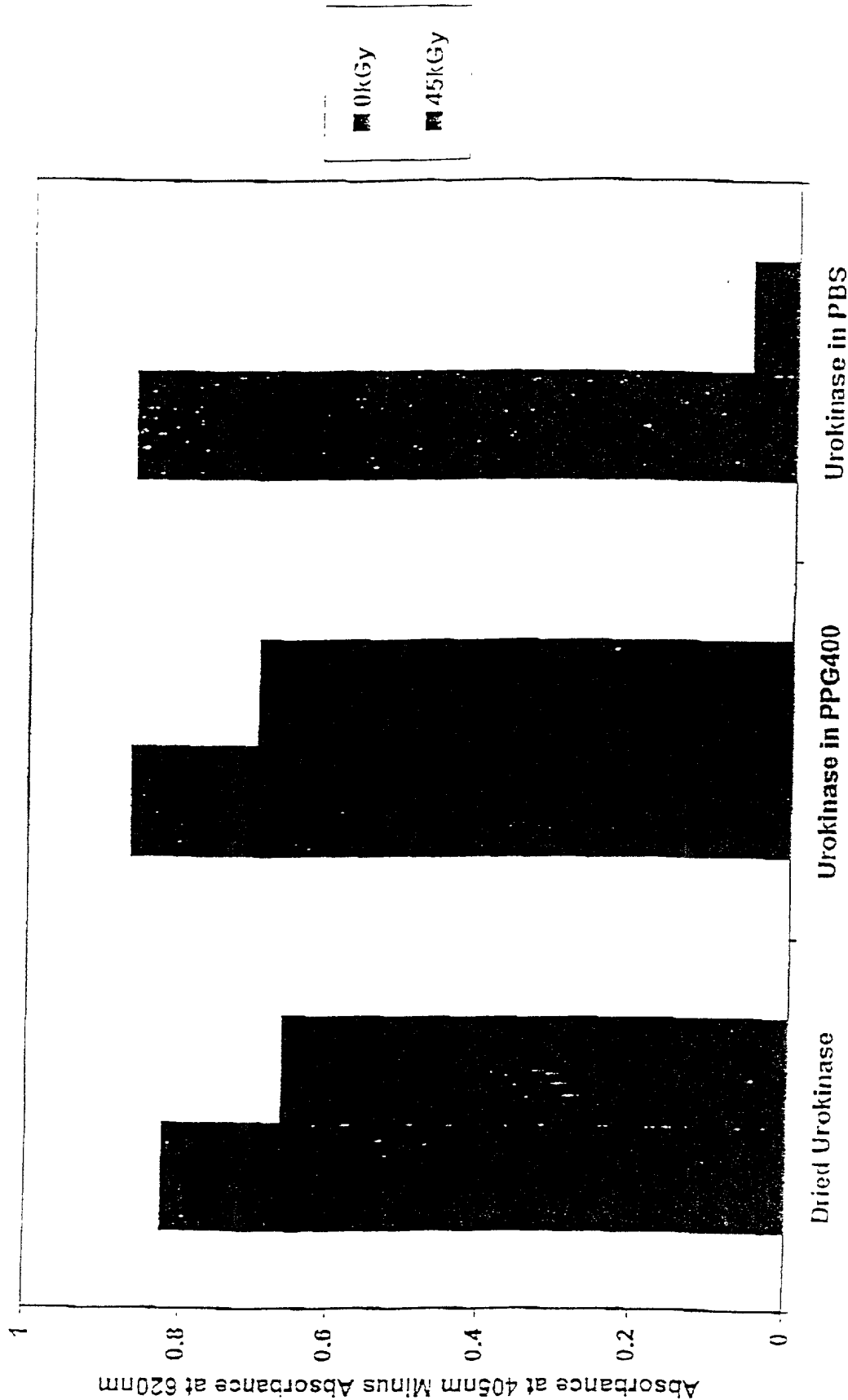
Gamma Irradiation of a Lyophilized Galactosidase In the Presence of 200mM Ascorbate and 200mM Gly-Gly

Reduced & Non-Reduced, 10%

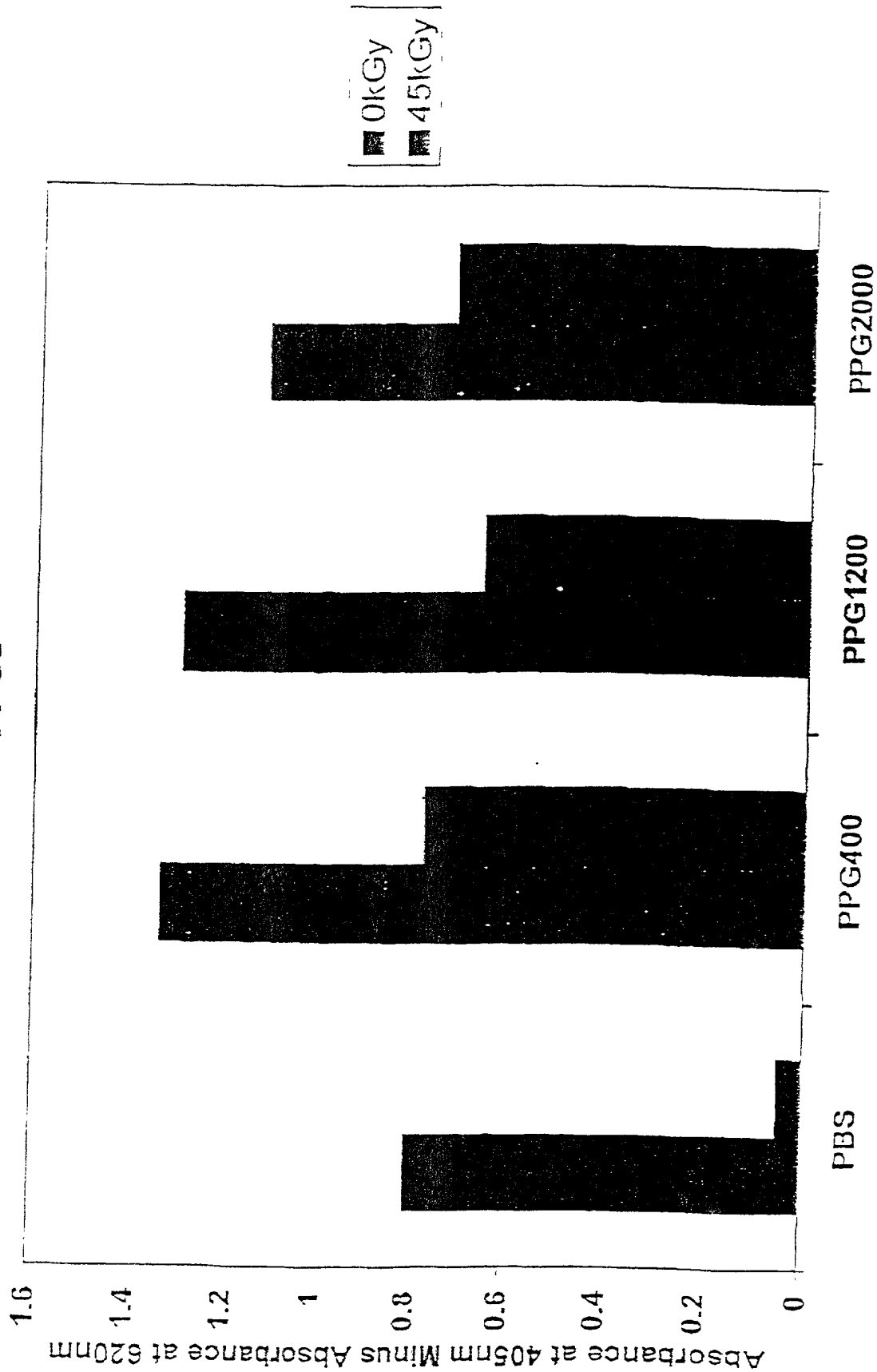


10C

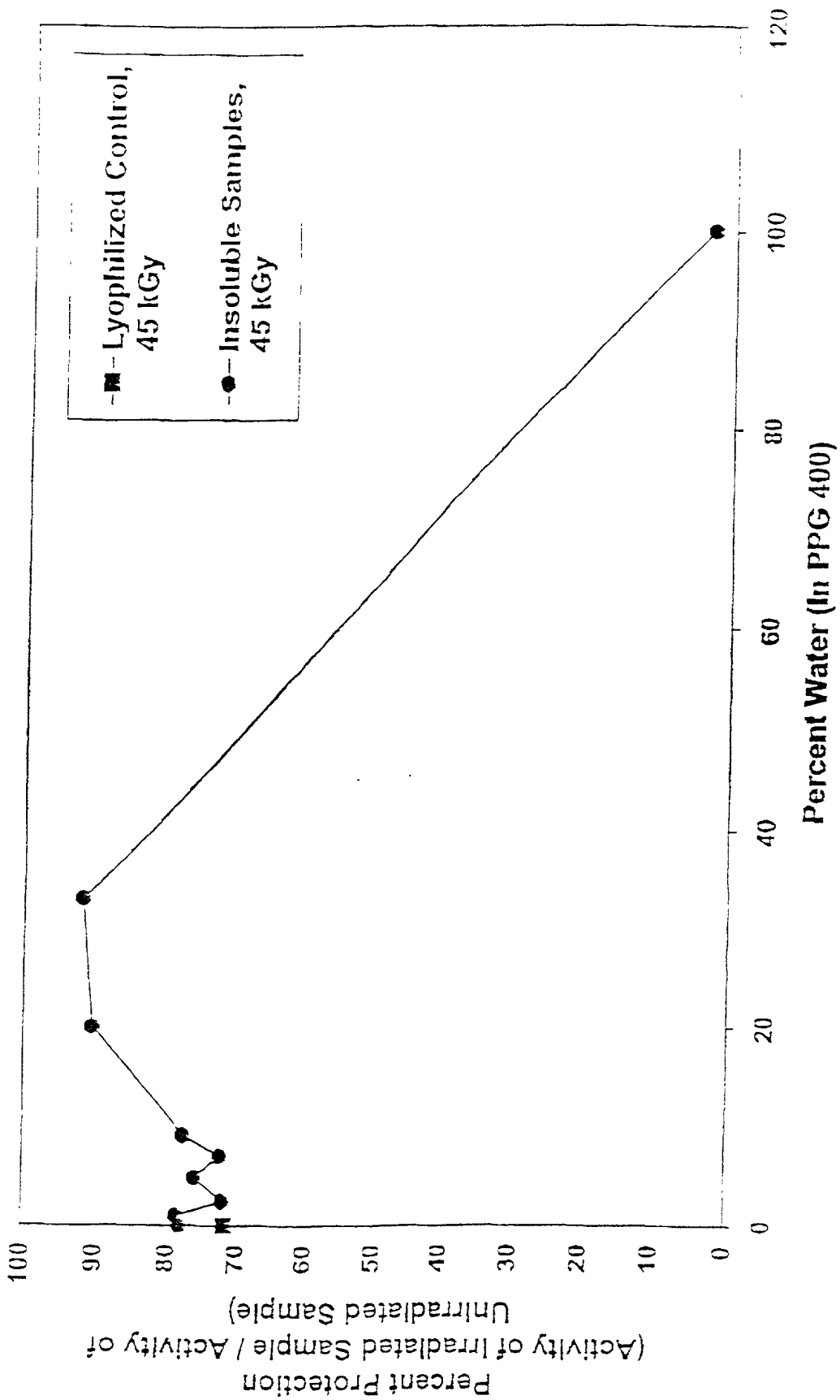
Gamma Irradiation of Dried Urokinase Suspended in PPG400



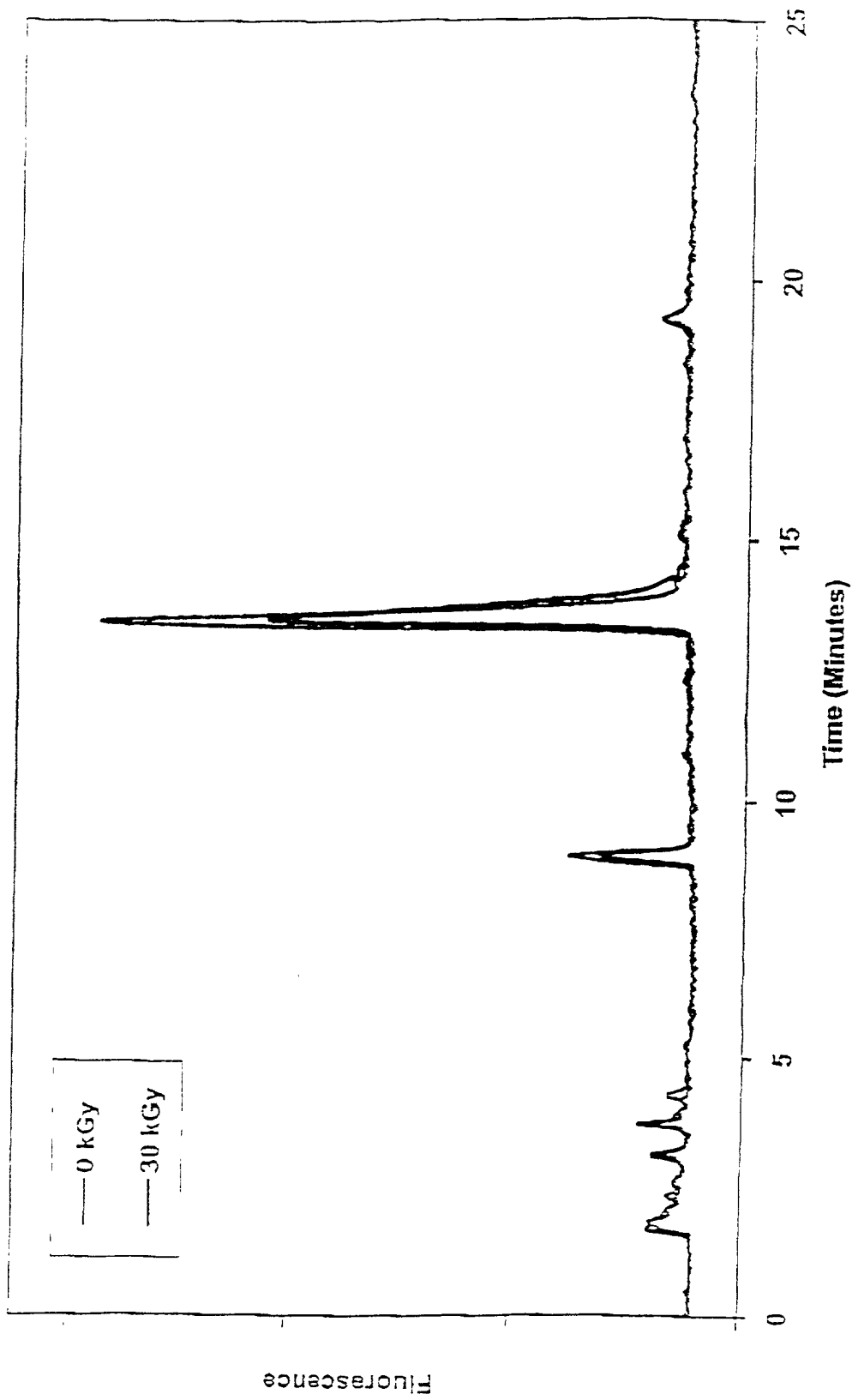
Gamma Irradiation of Immobilized Monoclonal Antibody in the Presence of various PPGs



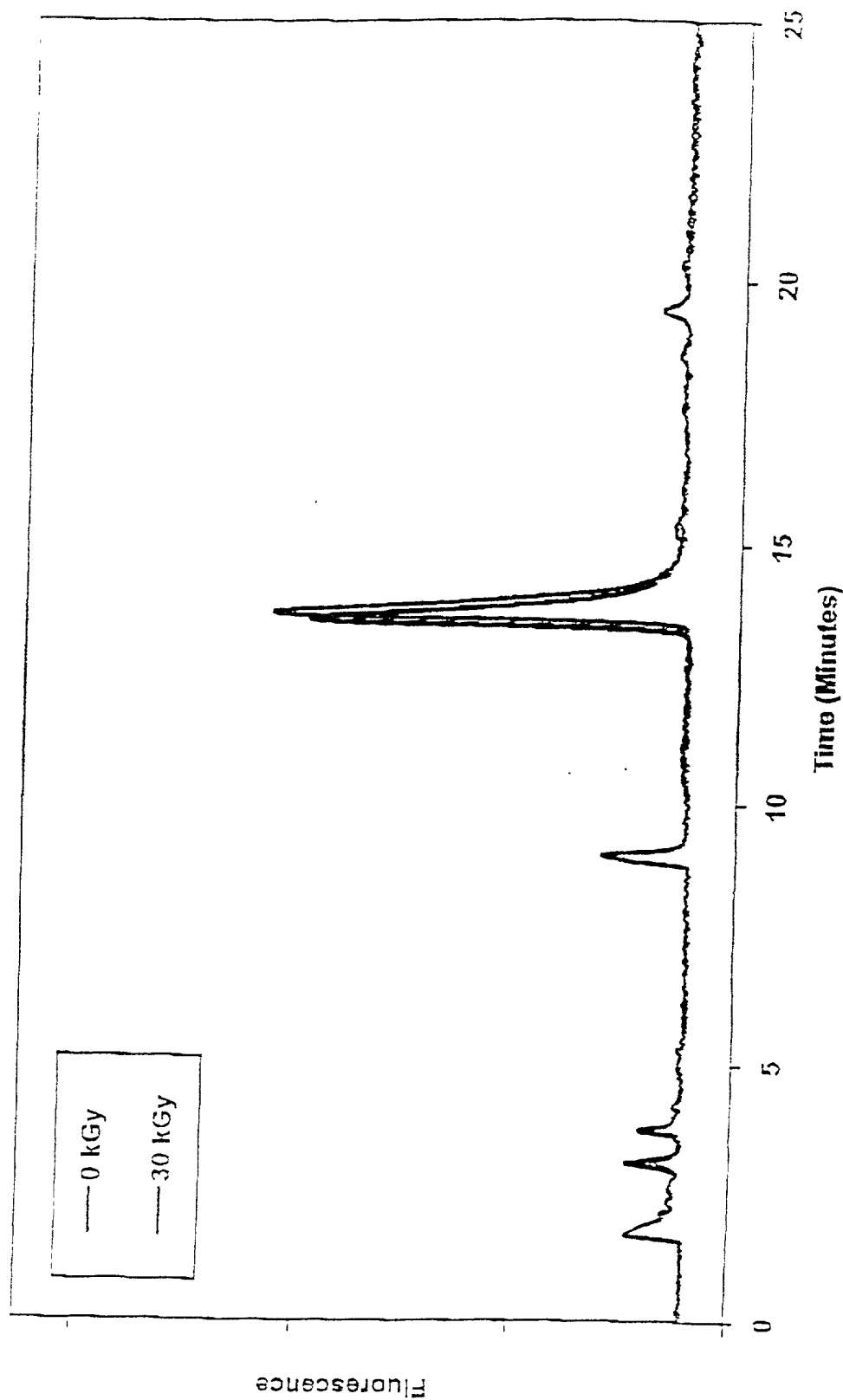
Gamma Irradiation of Trypsin in the Presence of Increasing Amounts of Added Moisture



Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PPG 400



Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PPG 400 and a Stabilizer Mixture of 62.5mM Trolox, 100mM Lipic Acid, 100mM Coumaric Acid, and 100mM n-Propyl Gallate



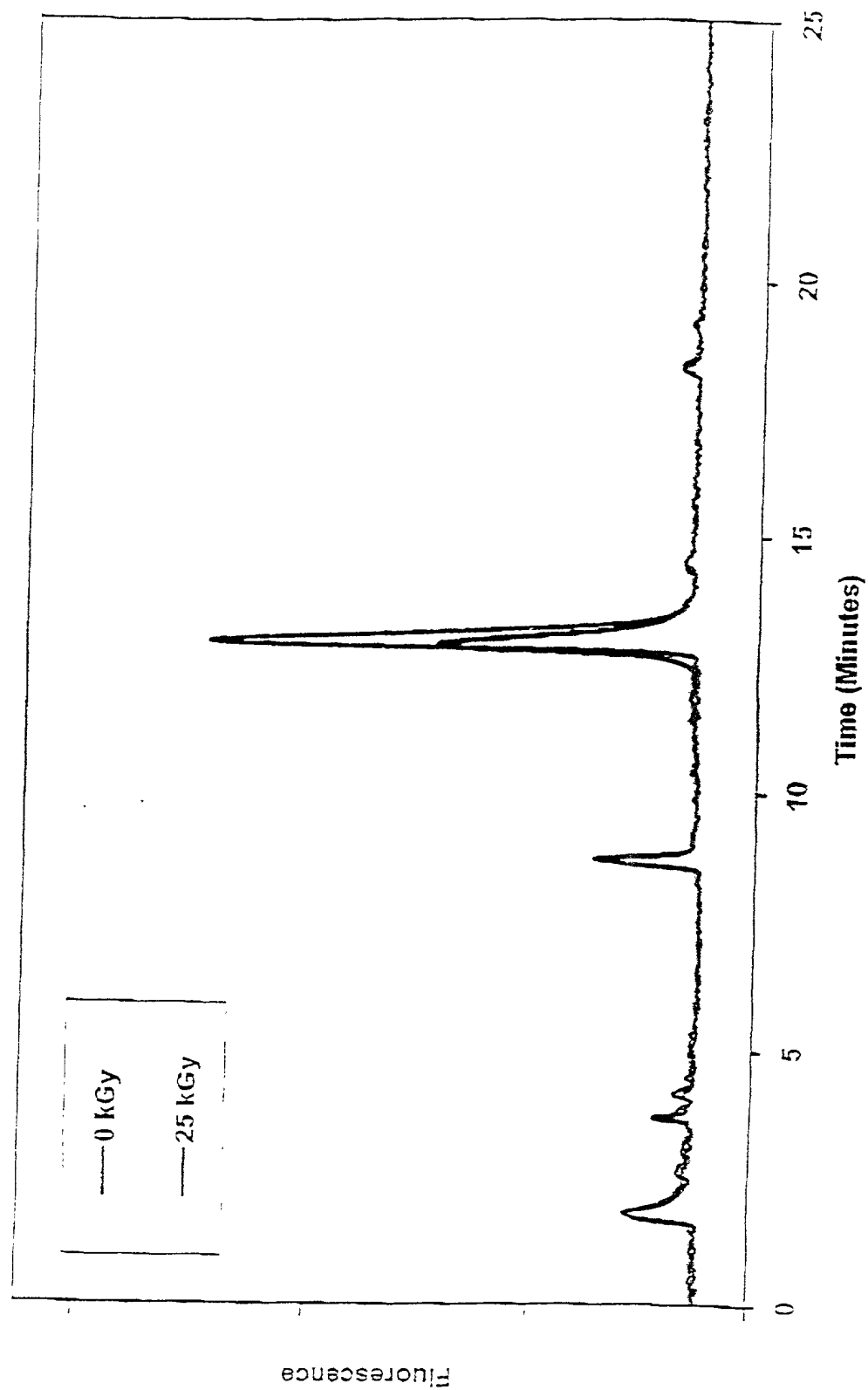
— 0 kGy

—30 kGy

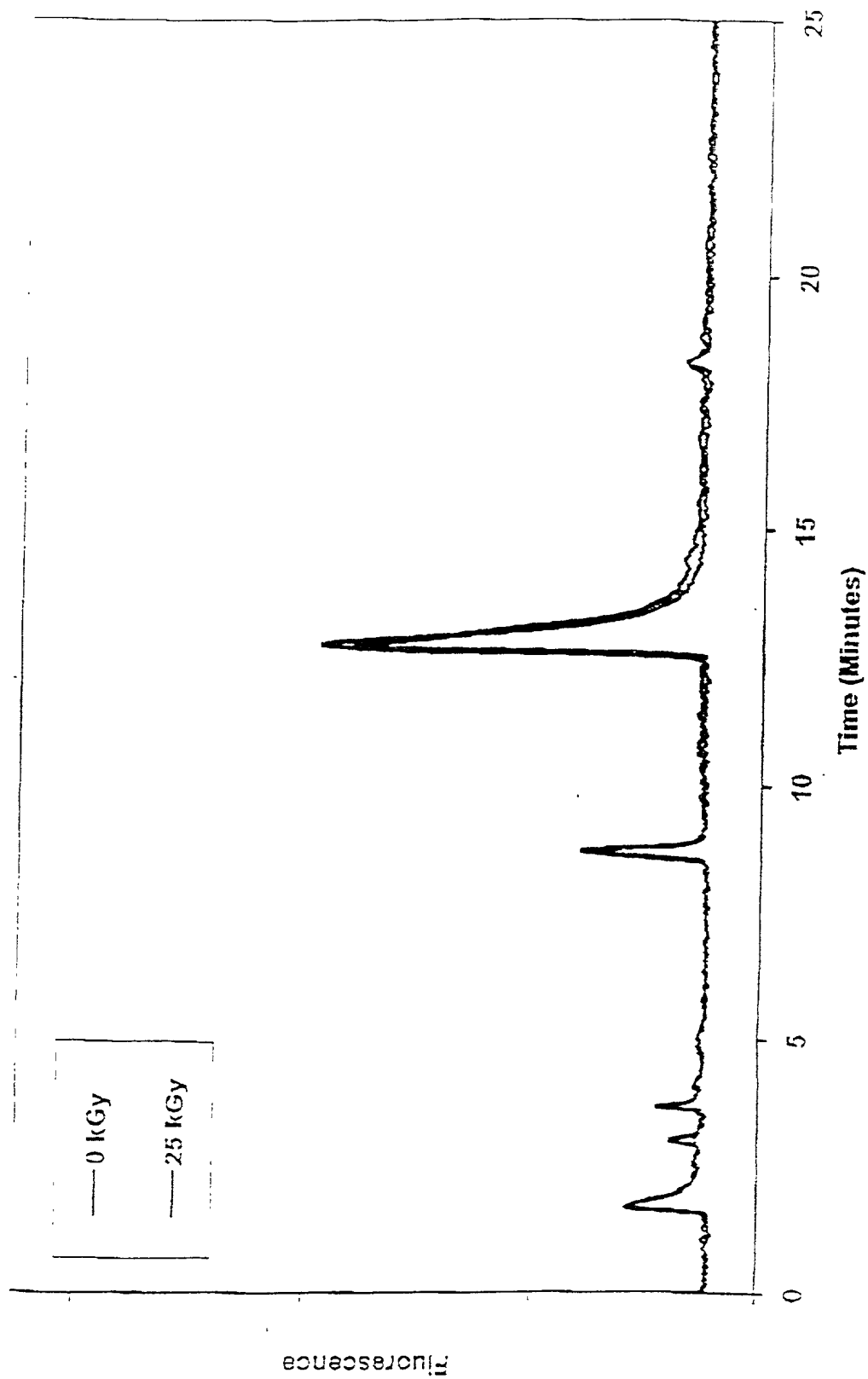
Time (Minutes)

174C

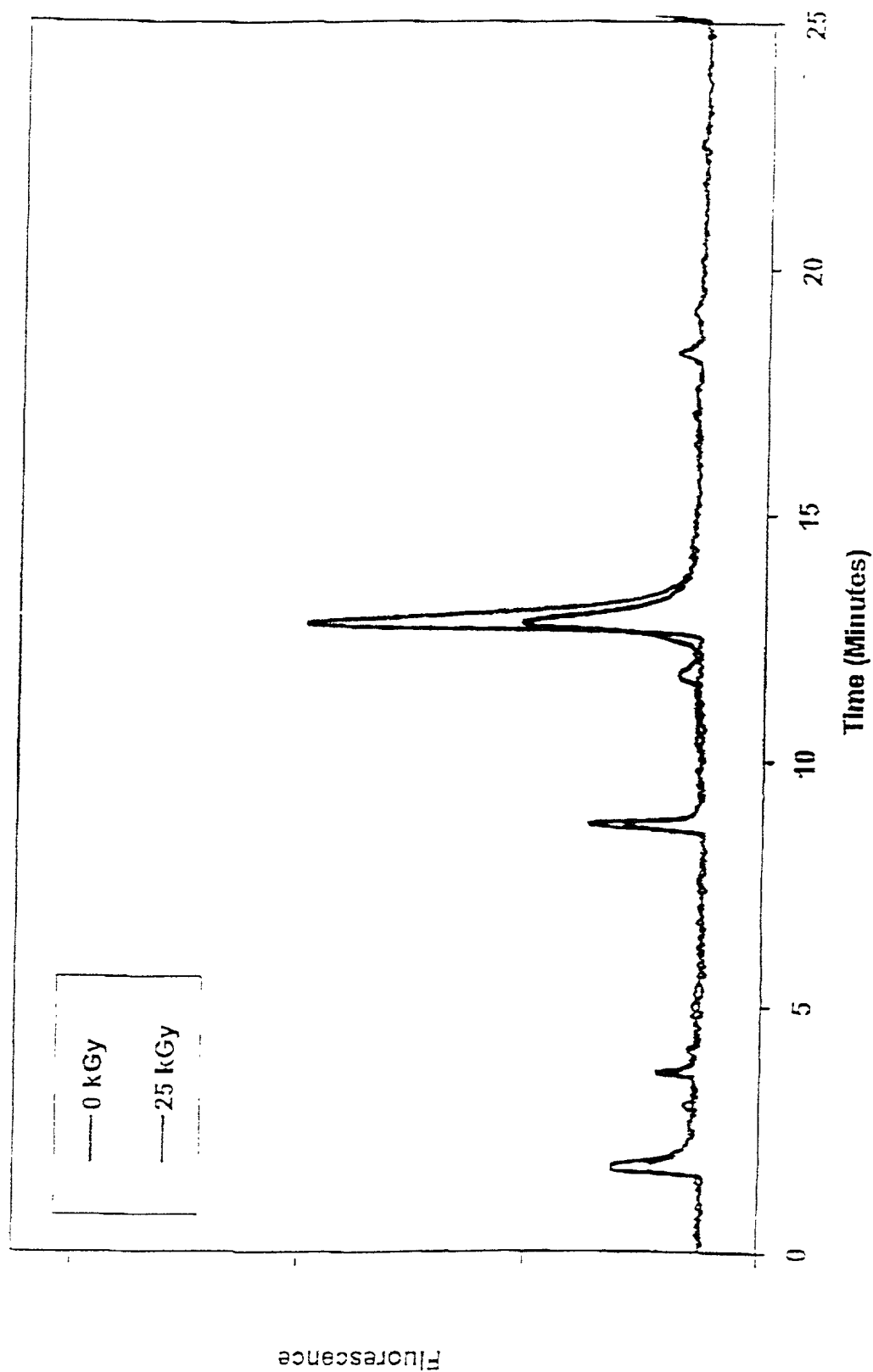
Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PBS



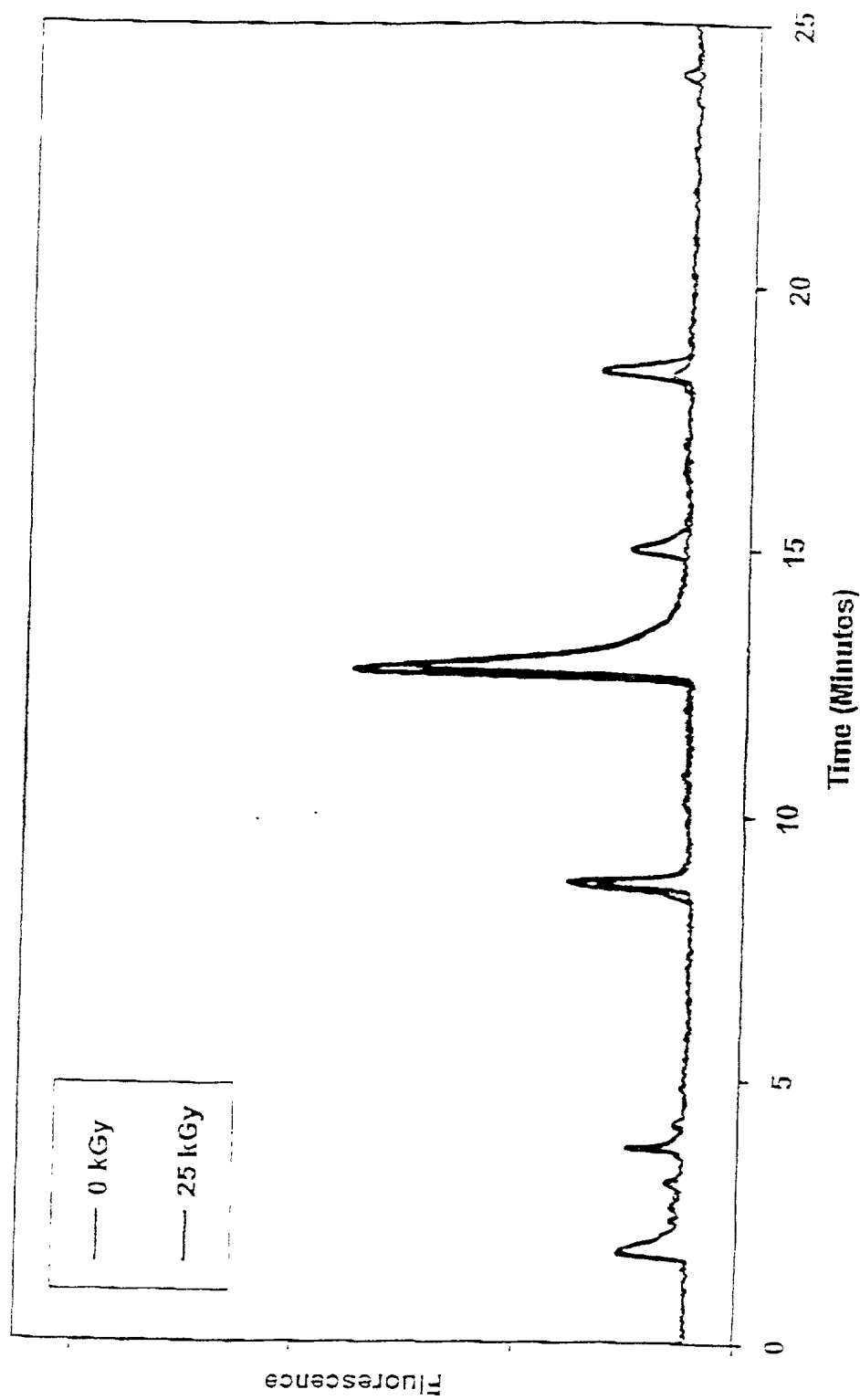
Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PPG 400



Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO

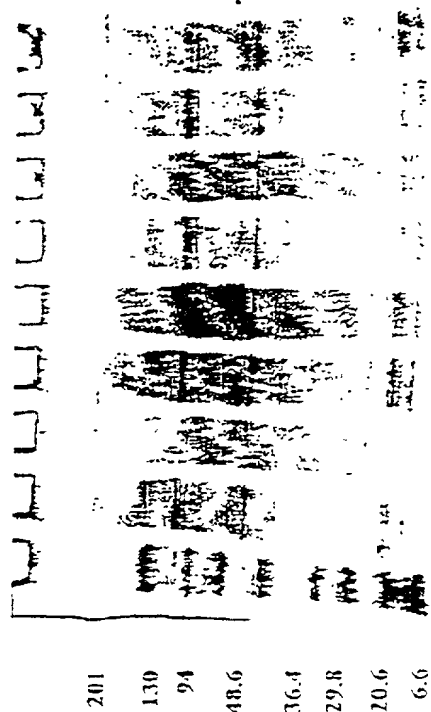


Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO and a Stabilizer Mixture of 167 mM Ascorbate, 166 mM Coumaric Acid, and 100 mM n-Propyl Gallate

AS

Gamma Irradiation of Porcine Heart Valve Cusps in the Presence of Various Solvents

Reduced



1. Molecular Weight Markers

2. PBS, 0 kGy

3. PBS, 25 kGy

4. PPG400, 0 kGy

5. PPG400, 25 kGy

6. 50% DMSO, 0 kGy

7. 50% DMSO, 25 kGy

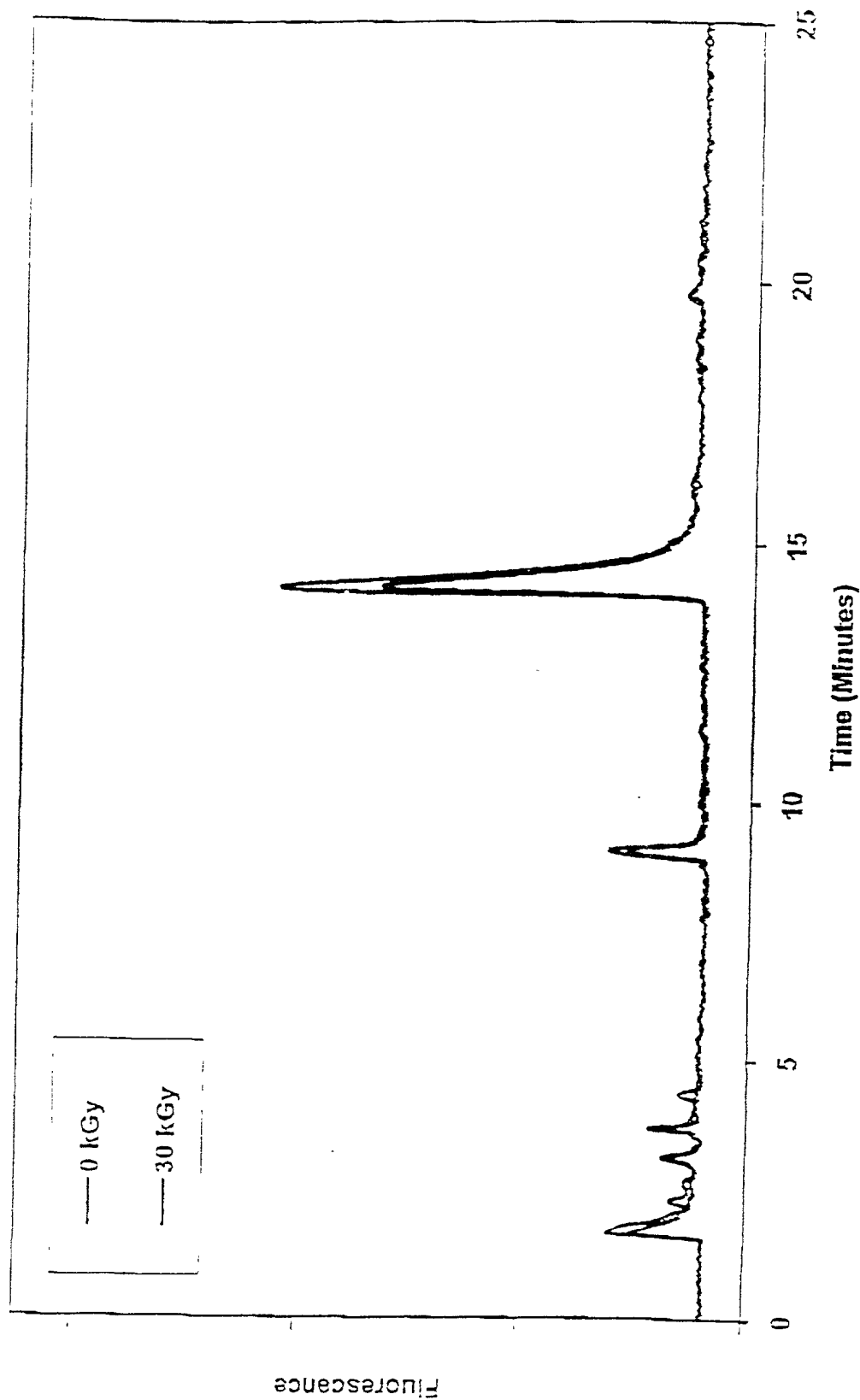
1 2 3 4 5 6 7 8 9

8. 50% DMSO and Cocktail of Ascorbate,
Coumaric Acid, and n-Propyl Gallate, 0 kGy

9. 50% DMSO and Cocktail of Ascorbate,
Coumaric Acid, and n-Propyl Gallate, 25 kGy

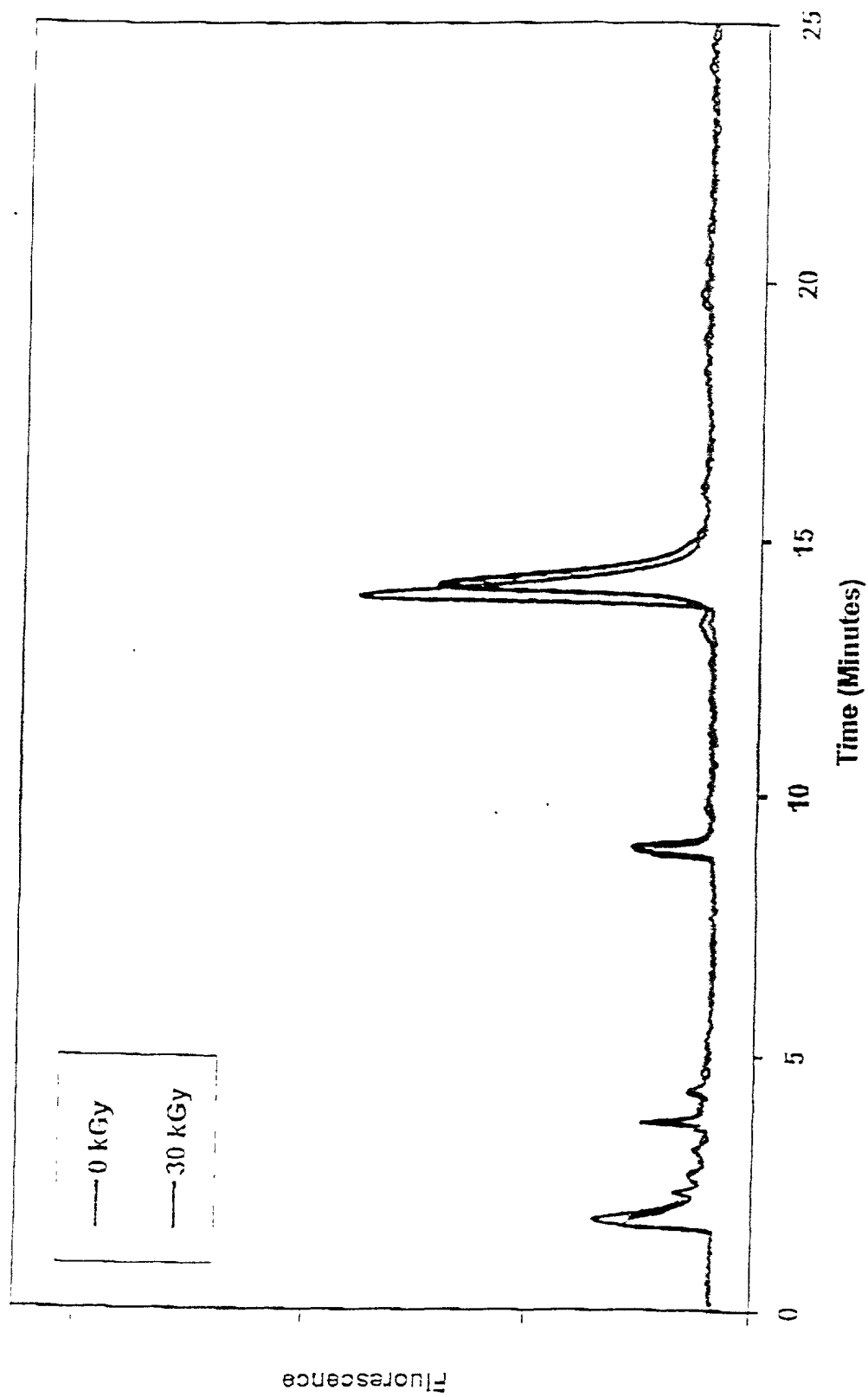
15E

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PBS



16A

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of a Cryopreservative (Containing Approximately 20% DMSO)



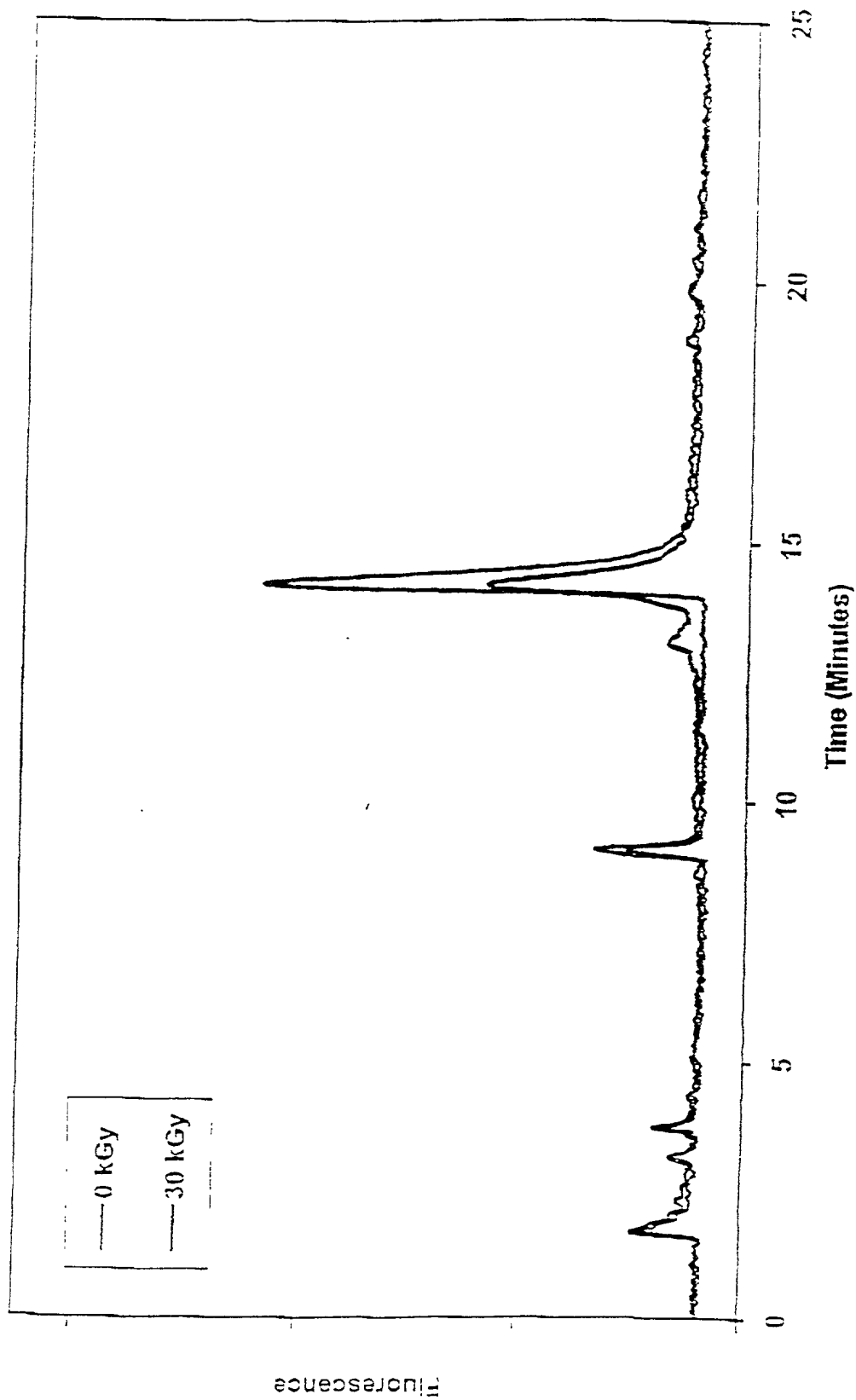
— 0 kGy

— 30 kGy

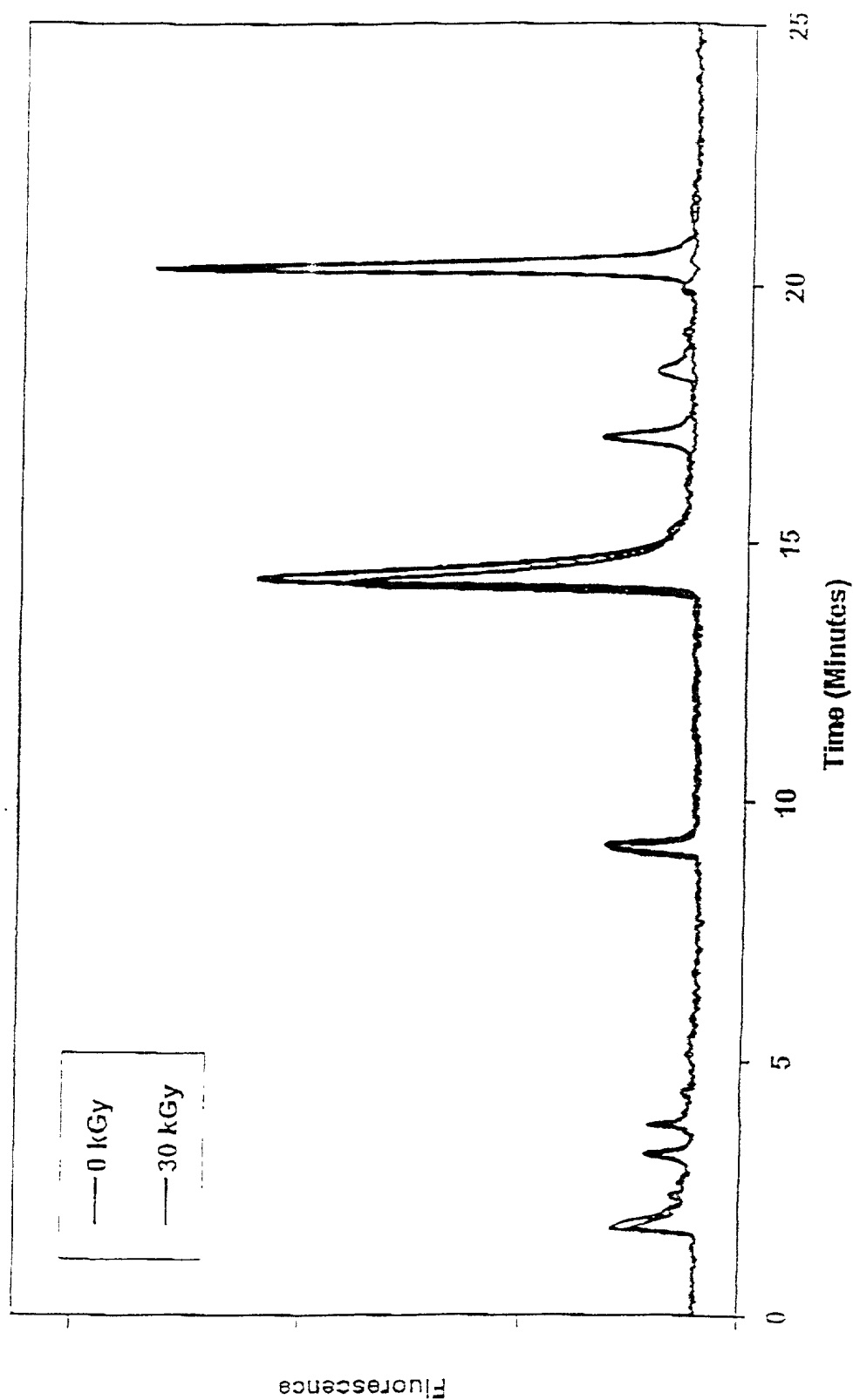
Time (Minutes)

16B

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO

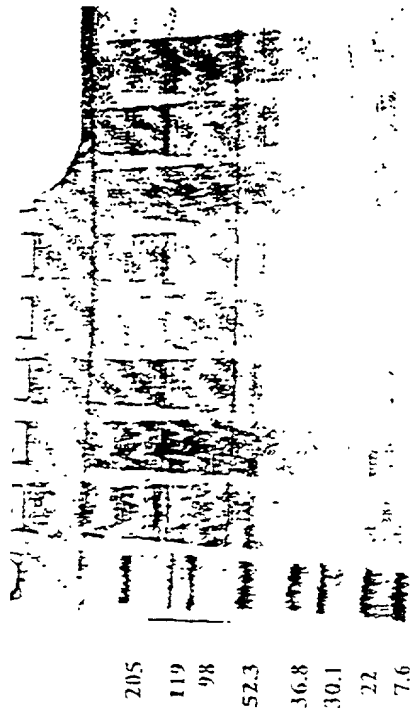


Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO and Ascorbate



Gamma Irradiation of Porcine Heart Valve Cusps in the Presence of Various Solvents

Reduced



1. Molecular Weight Markers

2. Cryopreservative, 0 kGy

3. Cryopreservative, 30 kGy

4. PBS, 0 kGy

5. PBS, 30 kGy

6. 50% DMSO, 0 kGy

7. 50% DMSO, 30 kGy

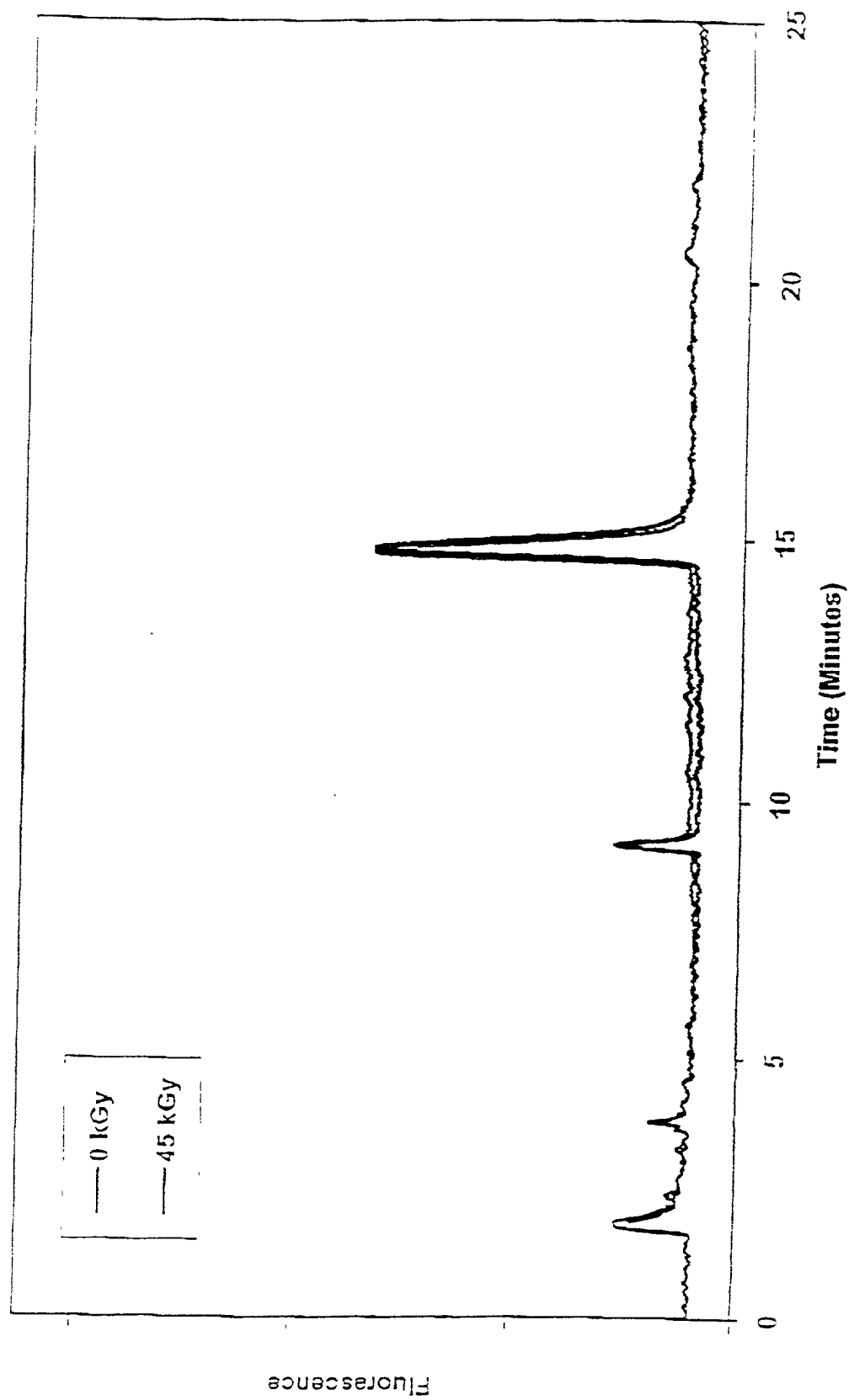
8. 50% DMSO and Ascorbate, 0 kGy

9. 50% DMSO and Ascorbate, 30 kGy

1 2 3 4 5 6 7 8 9

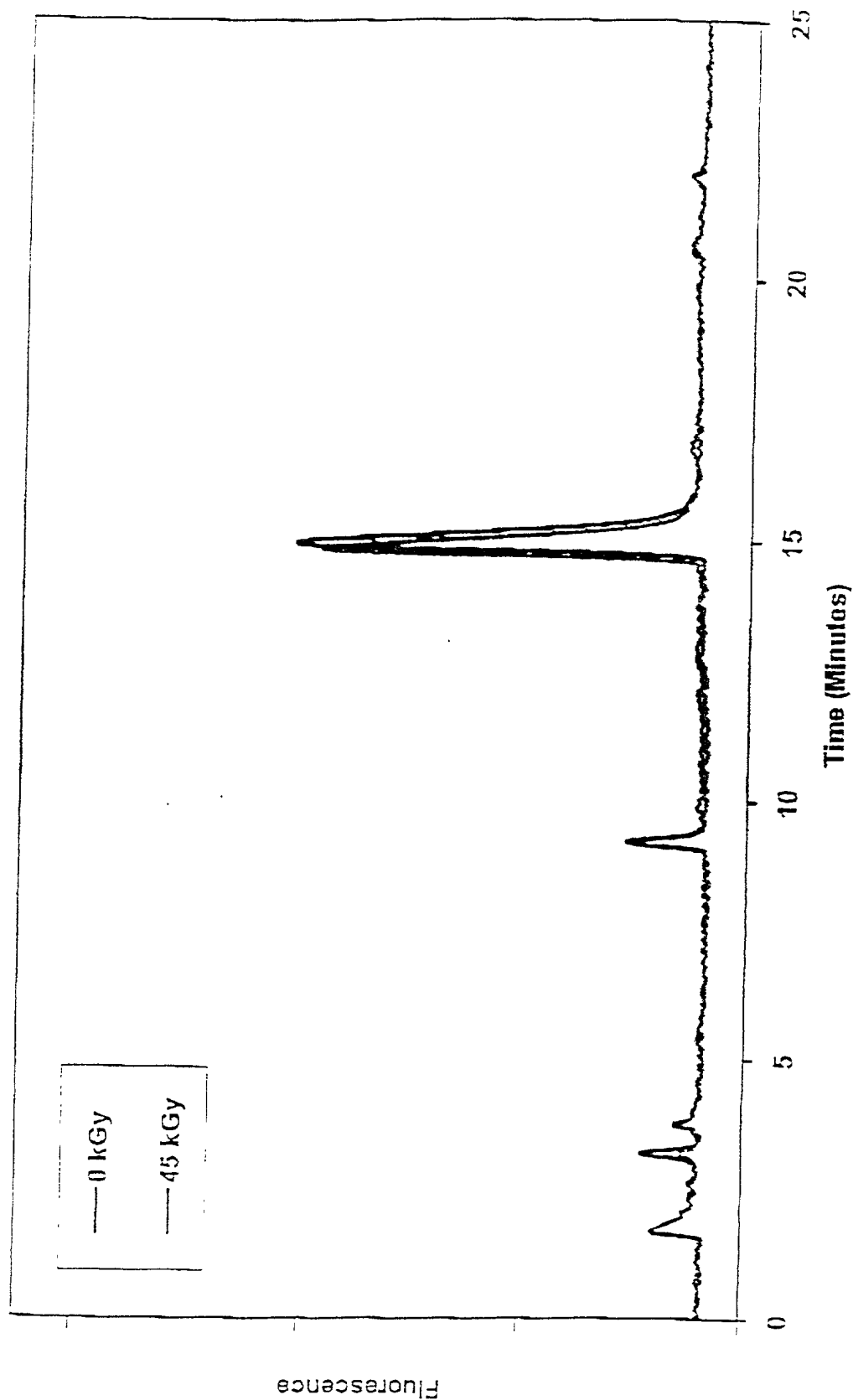
16E

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PBS



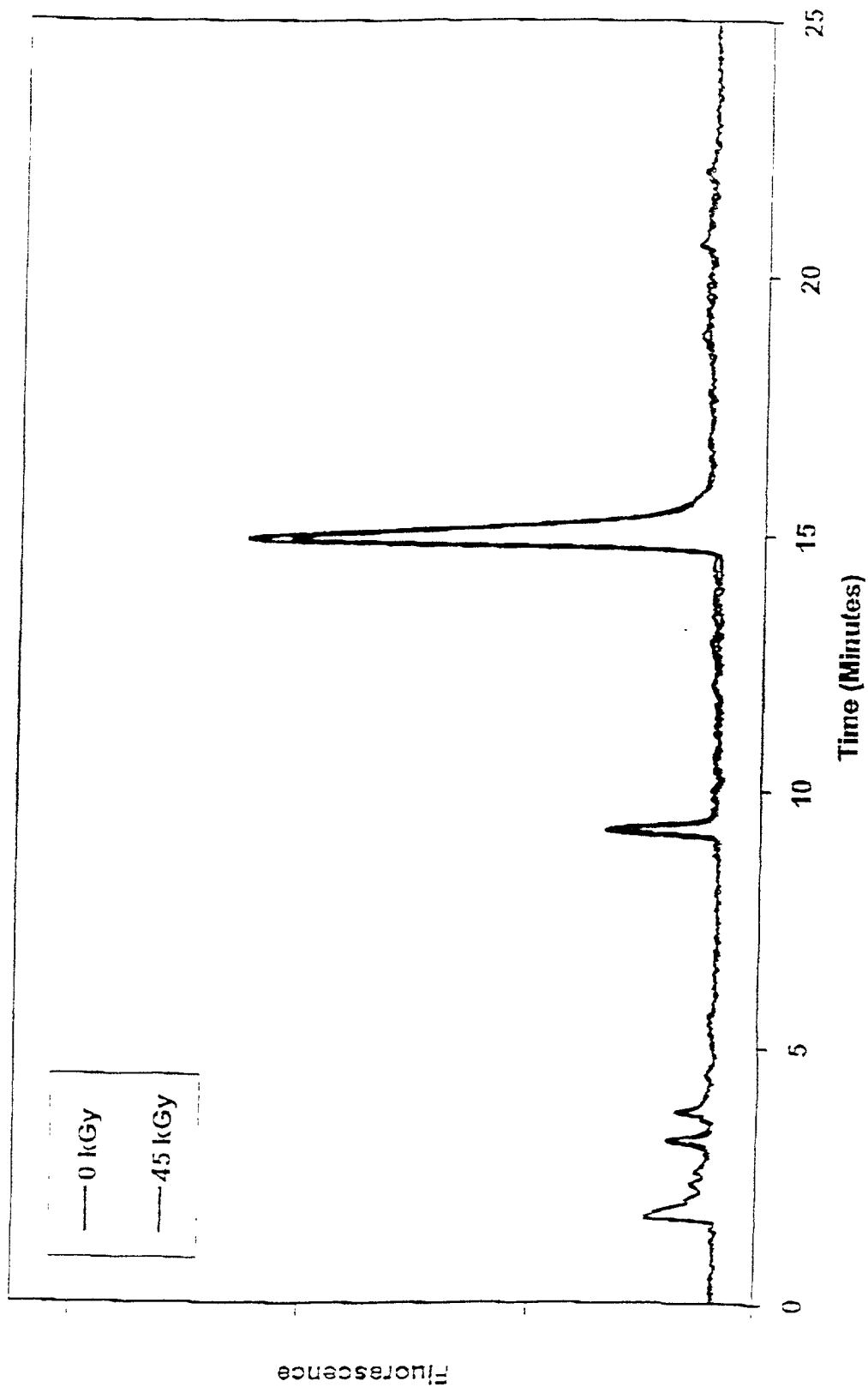
17A

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PBS and Ascorbate



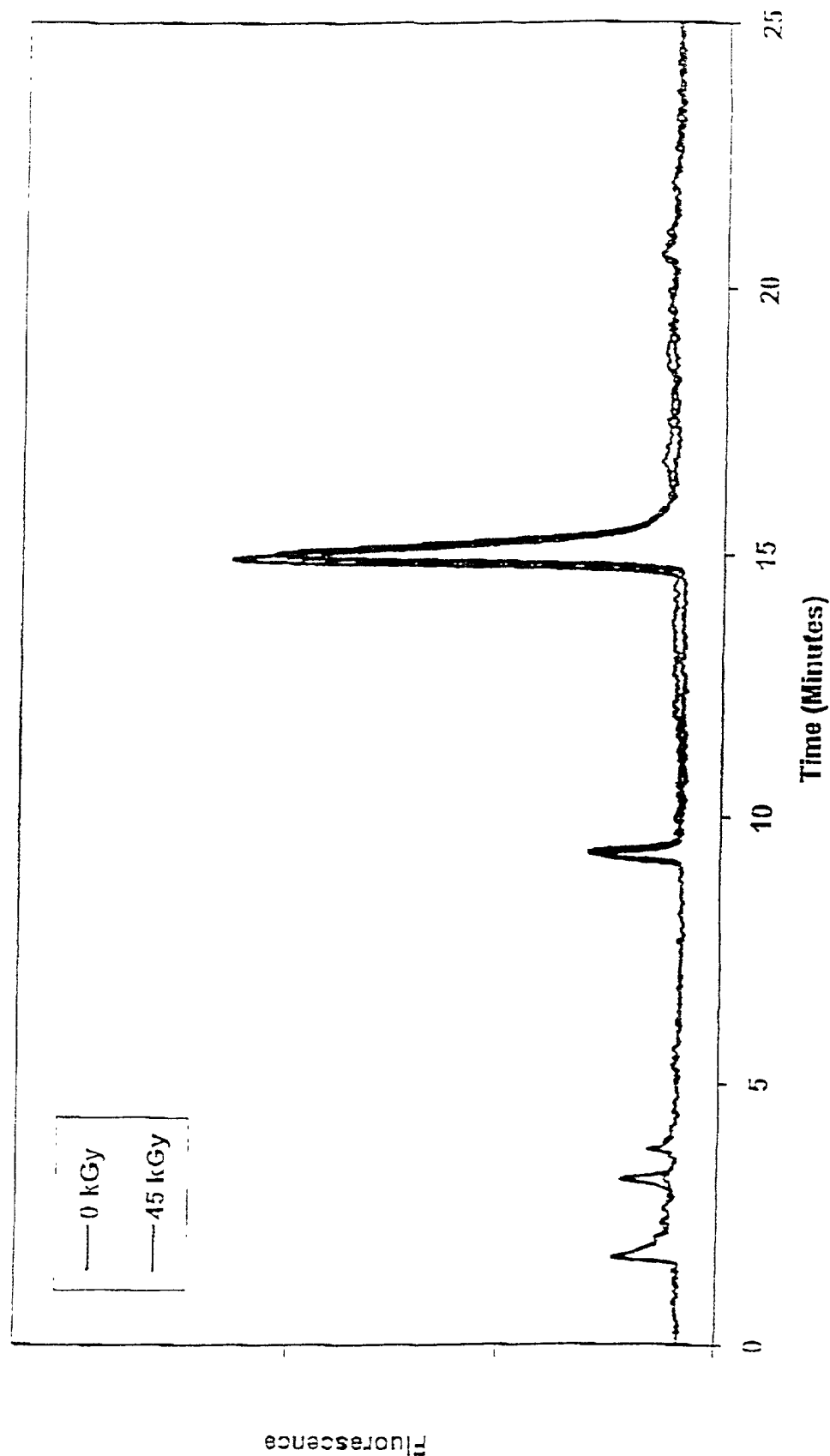
17B

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of PPG 400



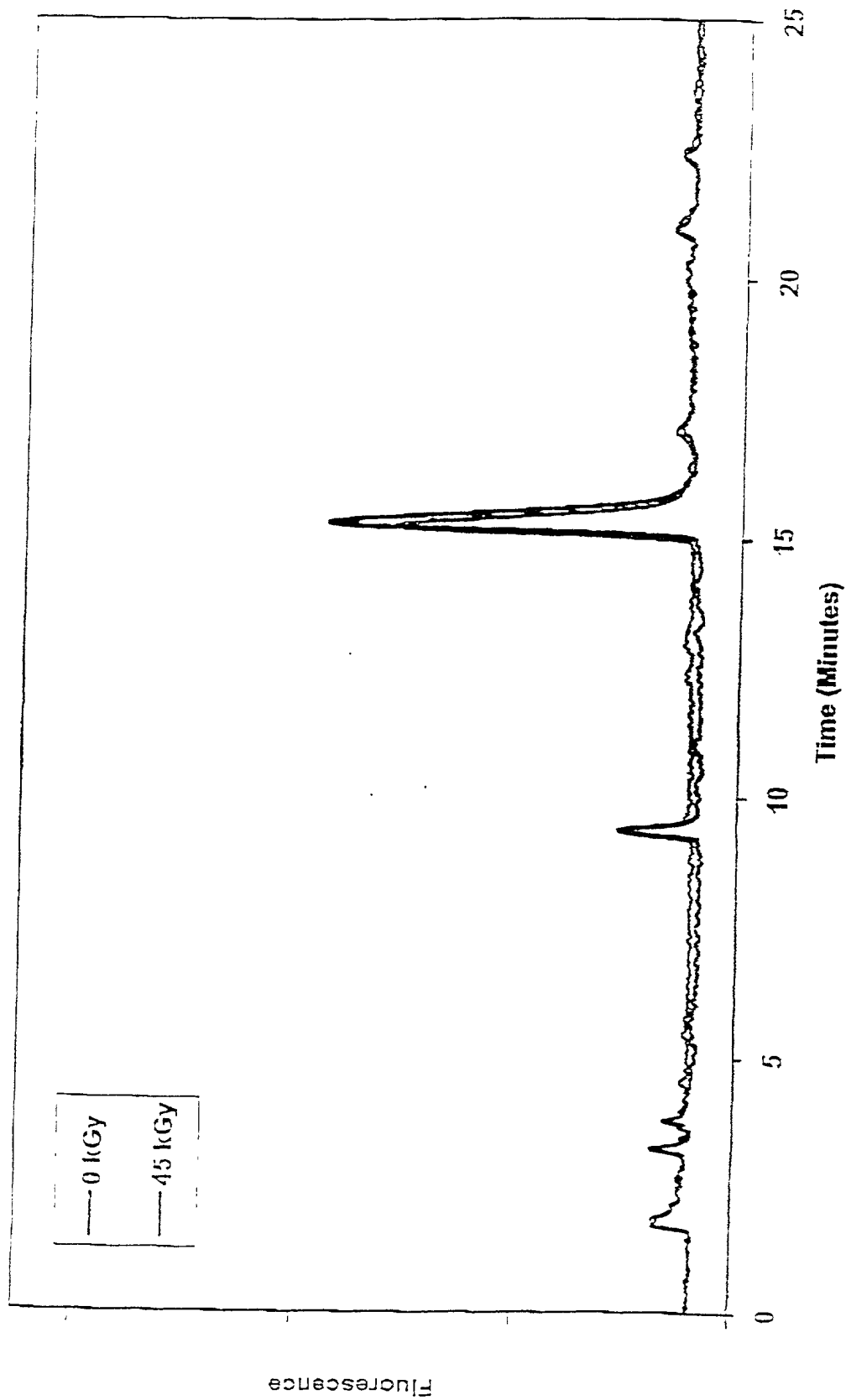
17C

Gamma Irradiation of Hydrolyzed Heart Valve Cusps Dehydrated with PPG 400 and Rehydrated in the Presence of PBS and Ascorbate

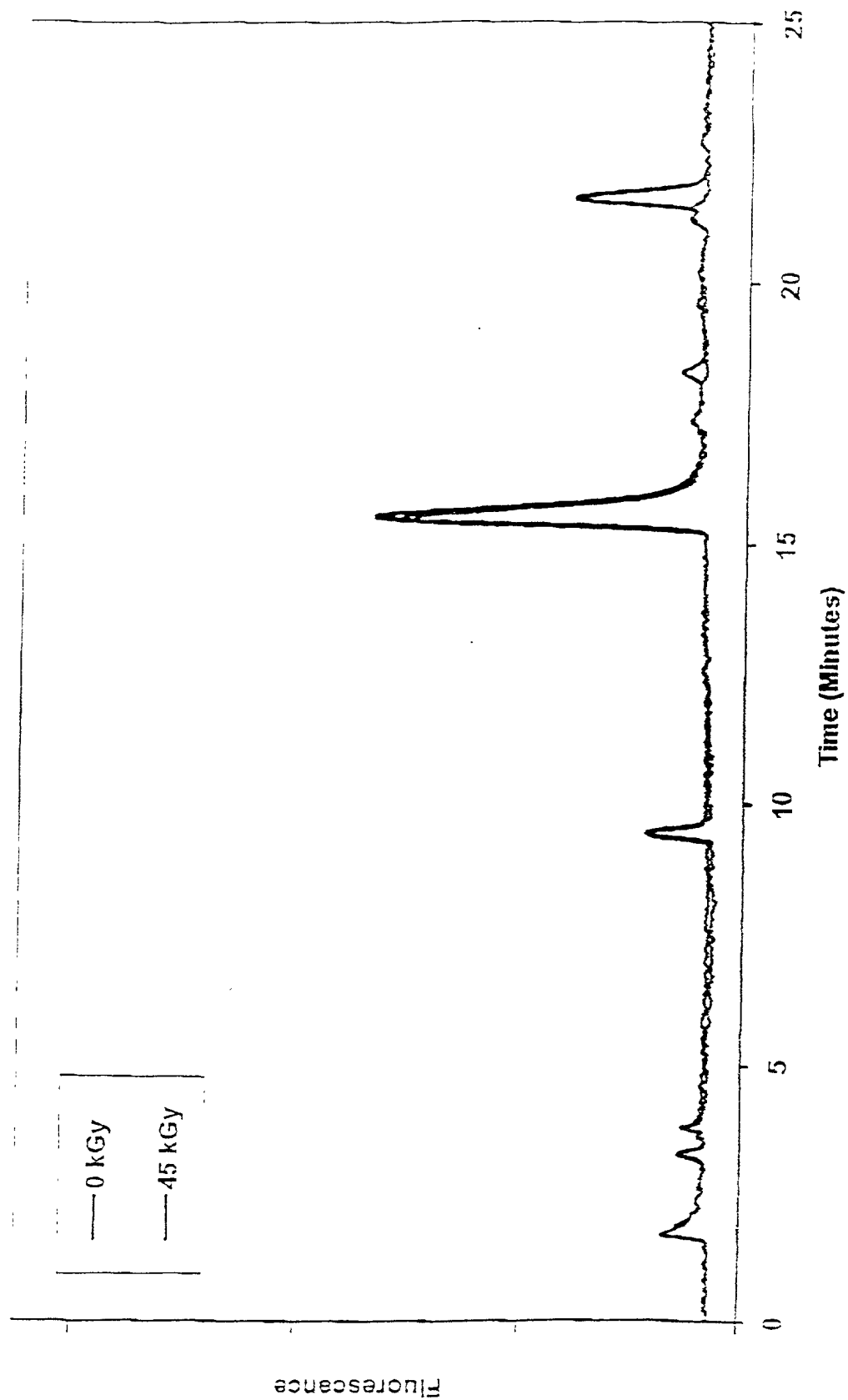


17D

Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO

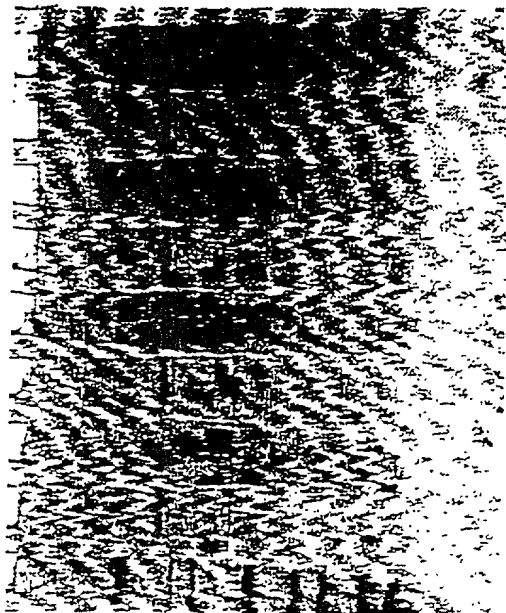


Gamma Irradiation of Hydrolyzed Heart Valve Cusps in the Presence of 50% DMSO and Ascorbate



77

Gamma Irradiation of Porcine Heart Valve Cusps in the Presence of Various Solvents

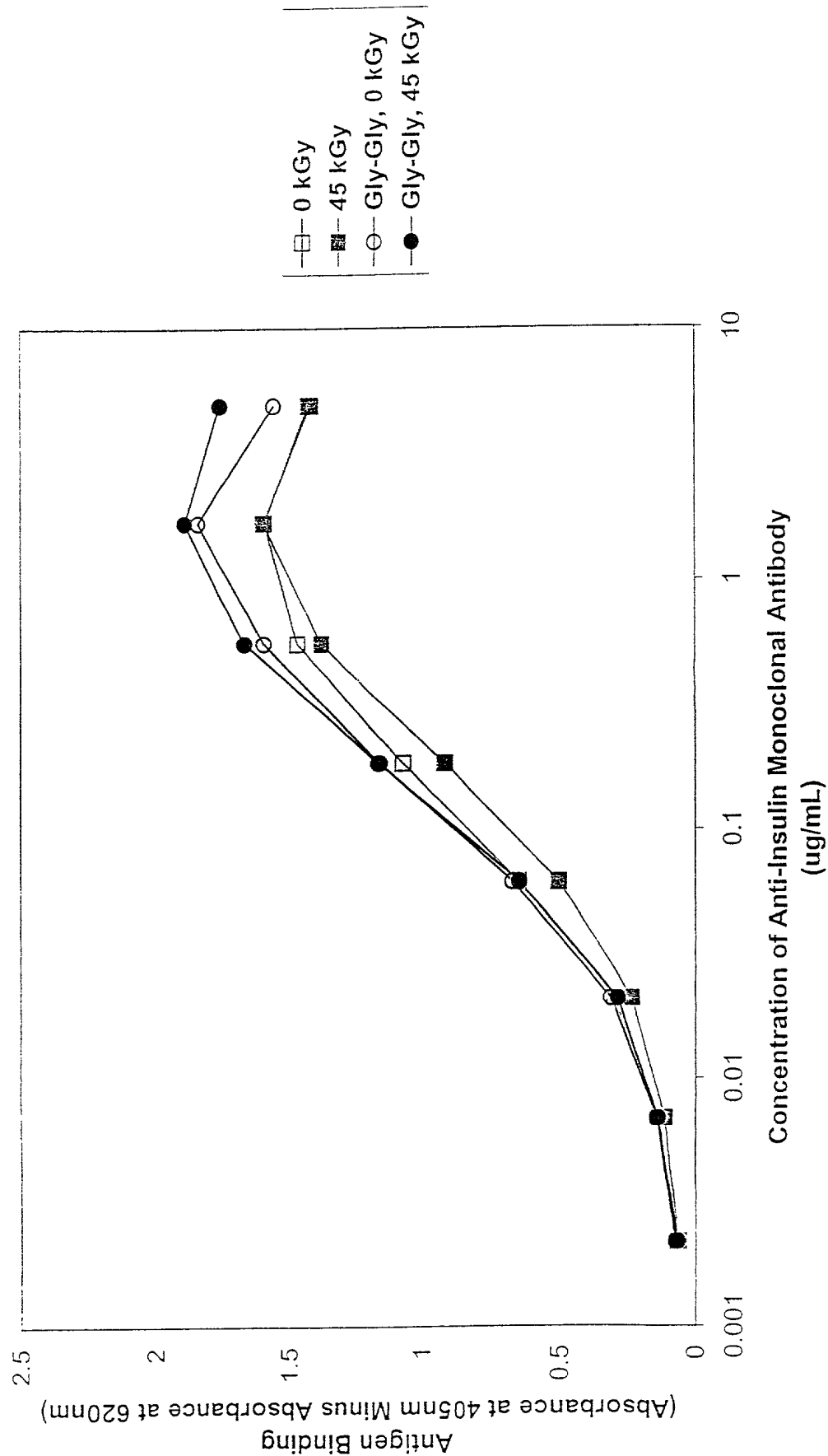


205
119
98
52.3
36.8
30.1
22
7.6

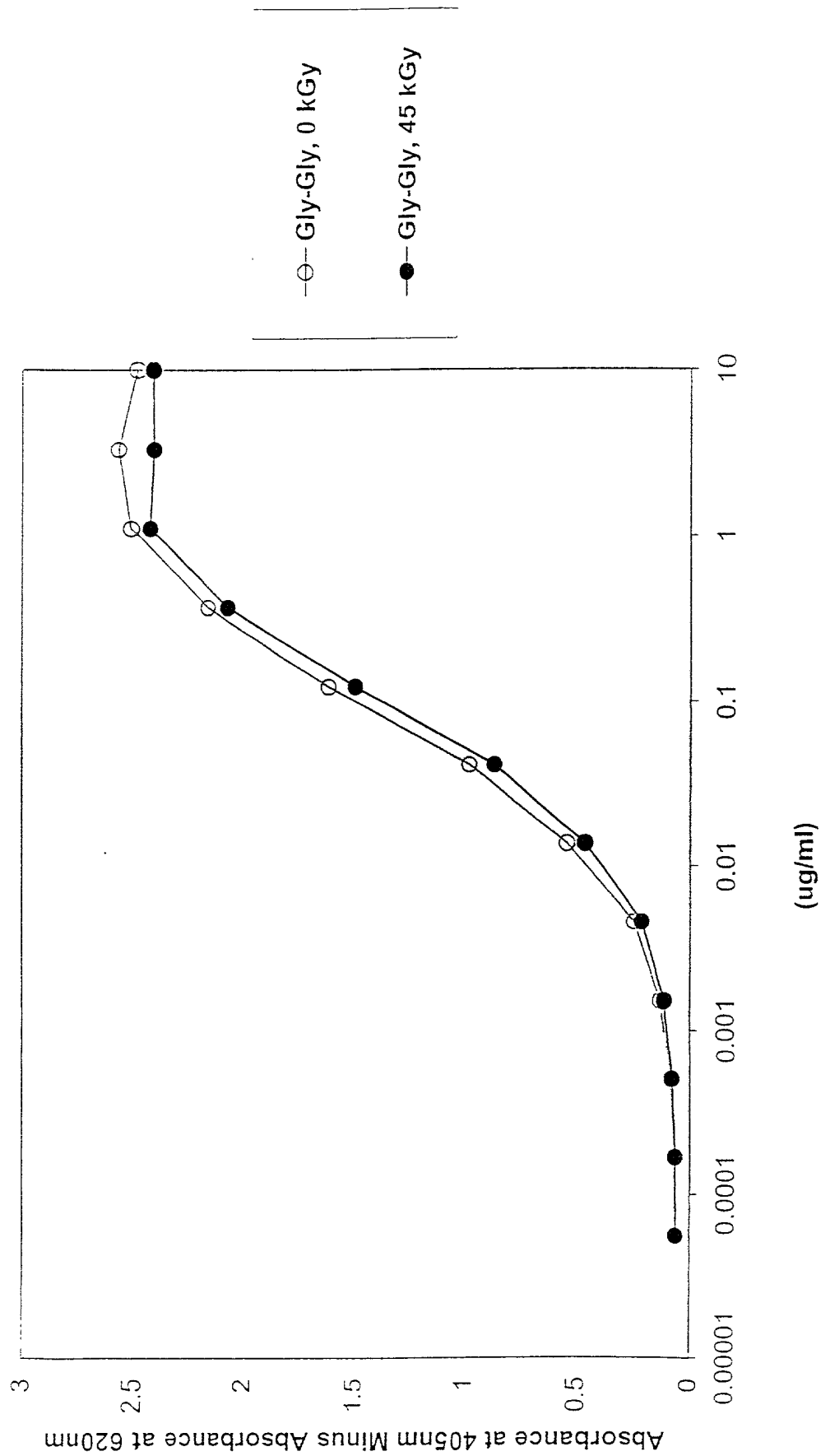
1 2 3 4 5 6 7 8 9

1. Molecular Weight Markers
2. PBS, 0 kGy
3. PBS, 45 kGy
4. PBS and Ascorbate, 0 kGy
5. PBS and Ascorbate, 45 kGy
6. PPG400, 0 kGy
7. PPG400, 45 kGy
8. Dehydrated in PPG400 and Rehydrated with PBS and Ascorbate, 0 kGy
9. Dehydrated in PPG400 and Rehydrated with PBS and Ascorbate, 45 kGy

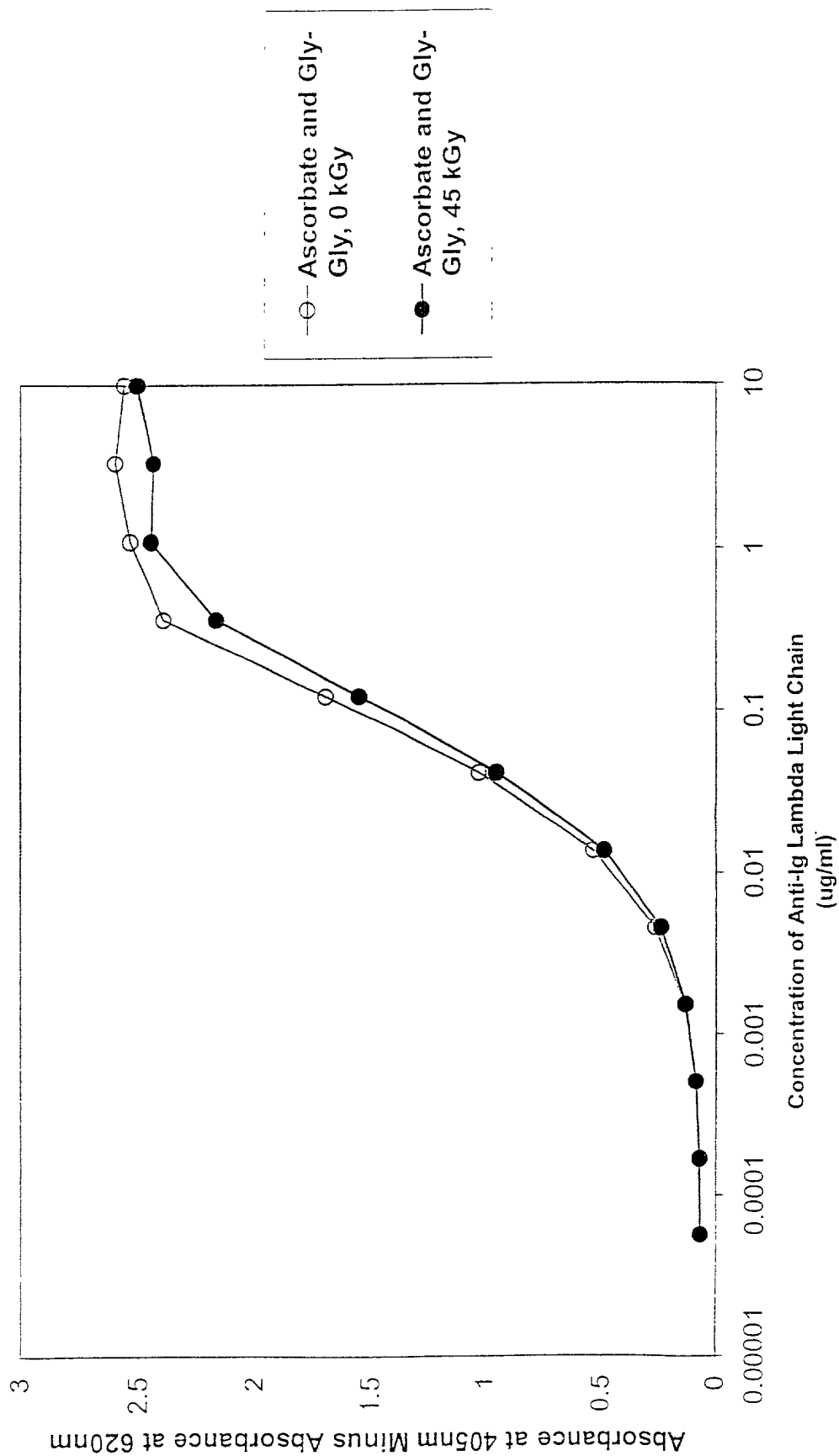
Gamma Irradiation of Freeze-Dried Anti-Insulin Monoclonal Antibody in the Presence or Absence of 20 mM Gly-Gly (1% HSA)



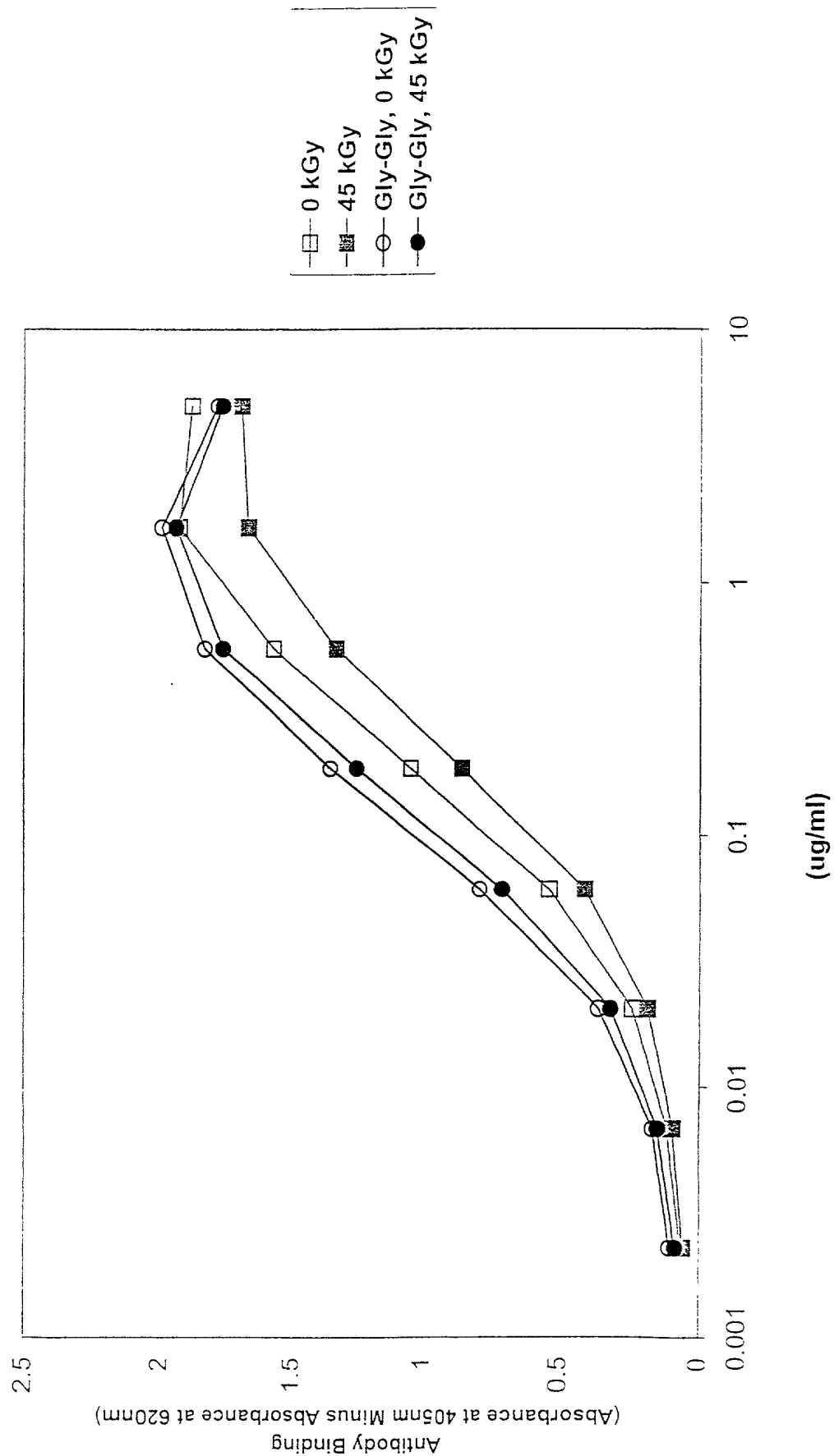
Gamma Irradiation of Freeze-Dried Anti-Human Ig, Lambda Light Chain, in the Presence or Absence of 20 mM Gly-Gly



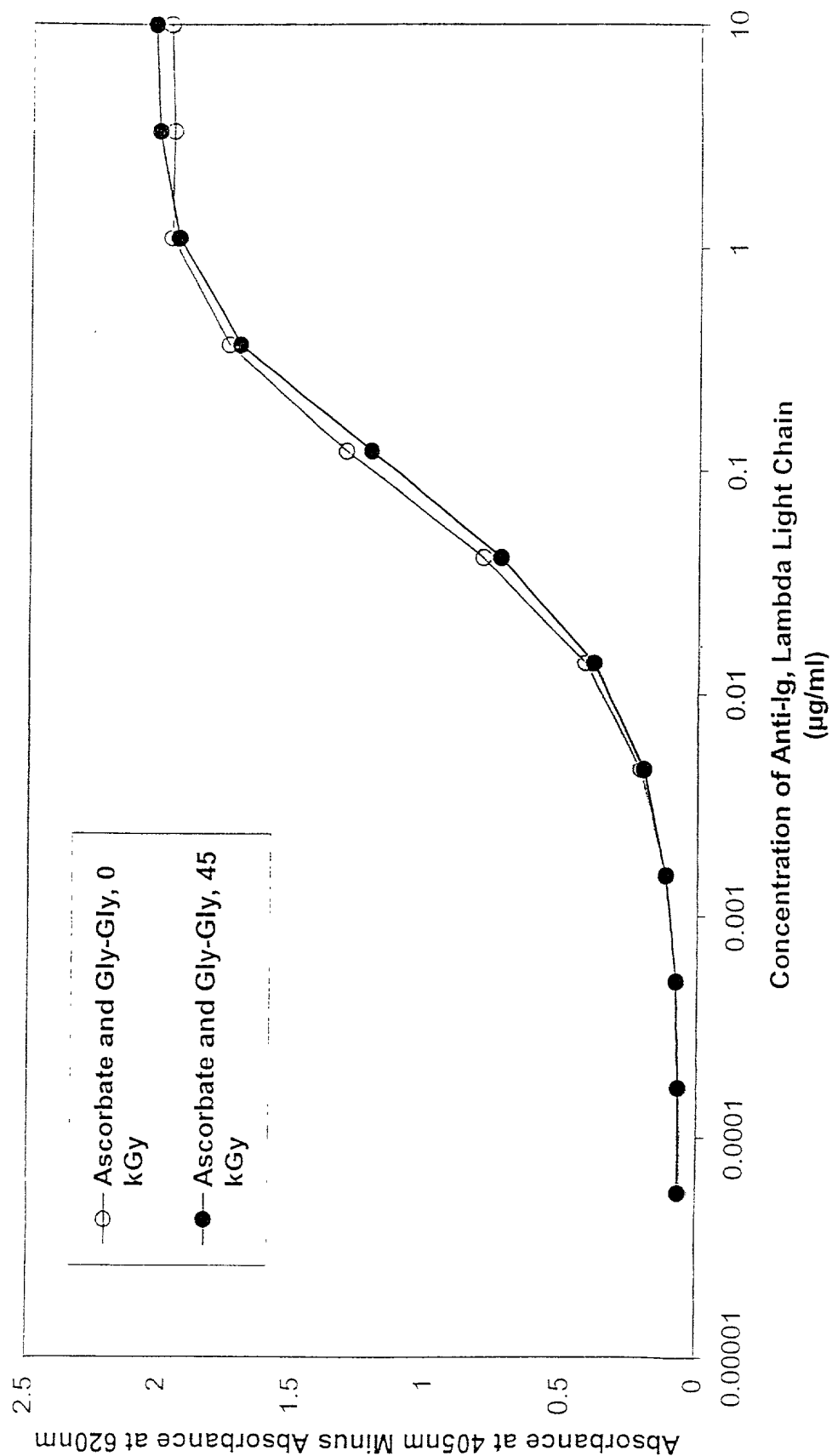
Gamma Irradiation of Freeze-Dried Anti-Human Ig, Lambda Light Chain, in the Presence or Absence of 20 mM Ascorbate and 20 mM Gly-Gly



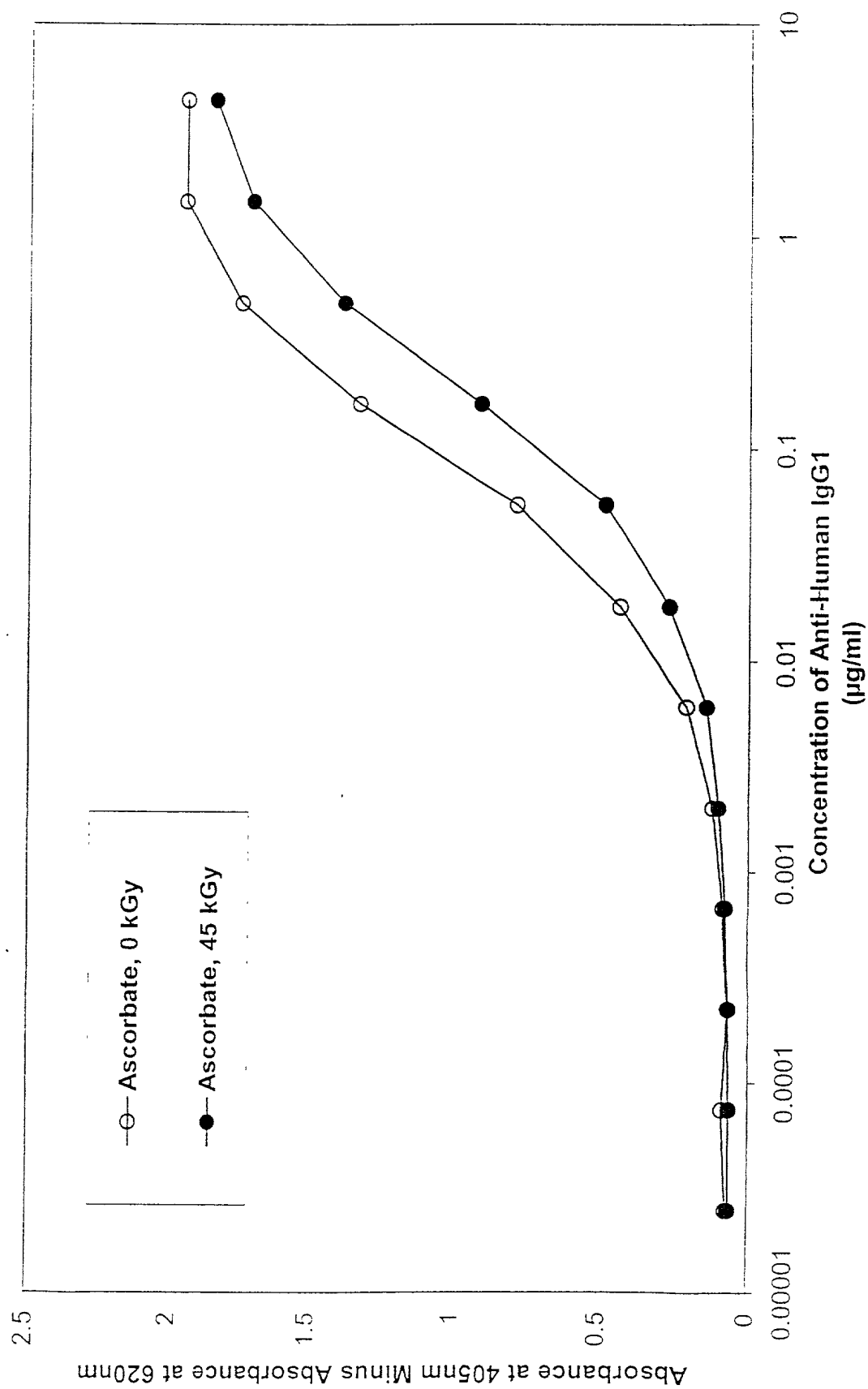
Gamma Irradiation of Freeze-Dried Anti-Insulin Monoclonal Antibody in the Presence or Absence of 20 mM Gly-Gly (and 1% BSA)



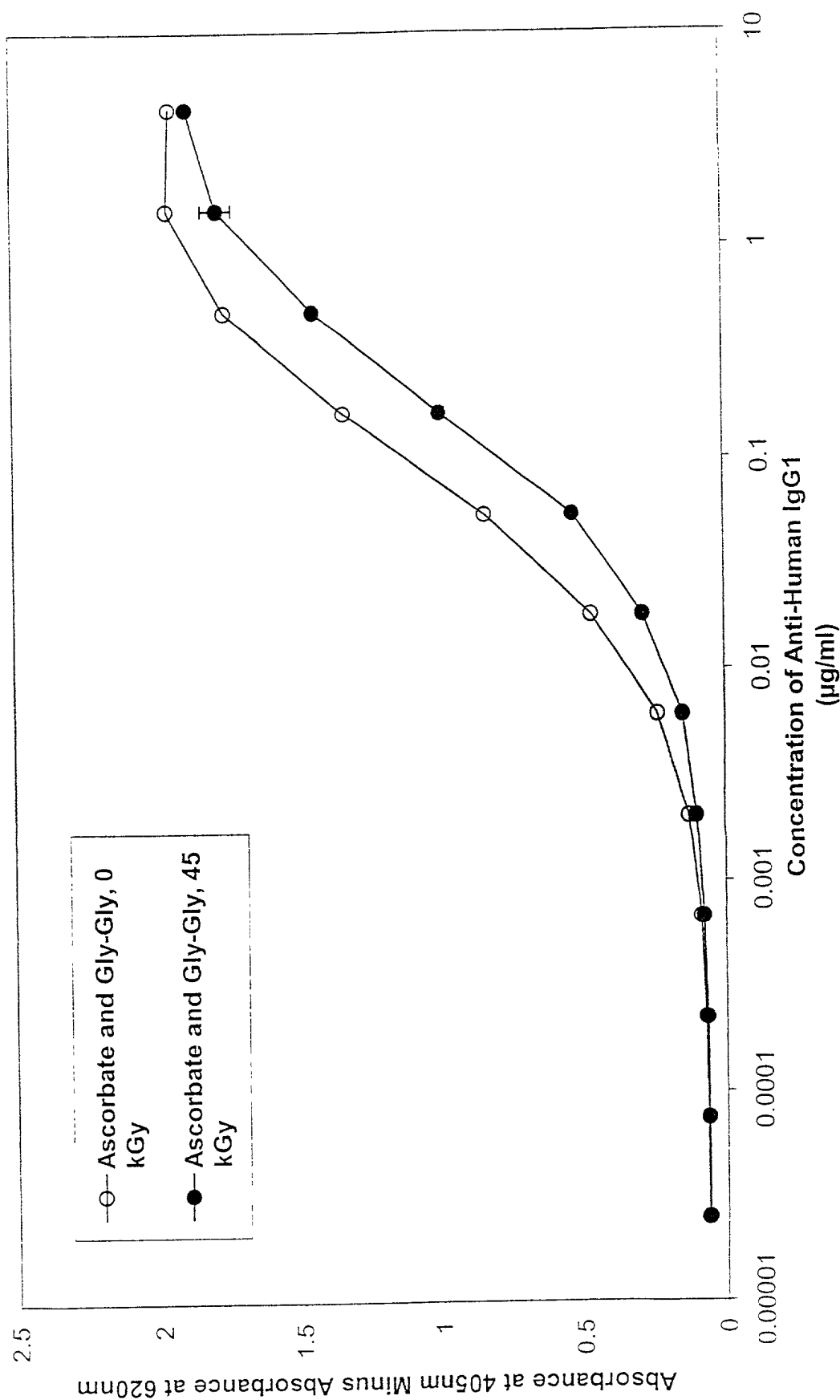
Gamma Irradiation of Liquid Anti-Human Ig, Lambda Light Chain in the Presence or Absence of 200mM Ascorbate and 200mM Gly-Gly



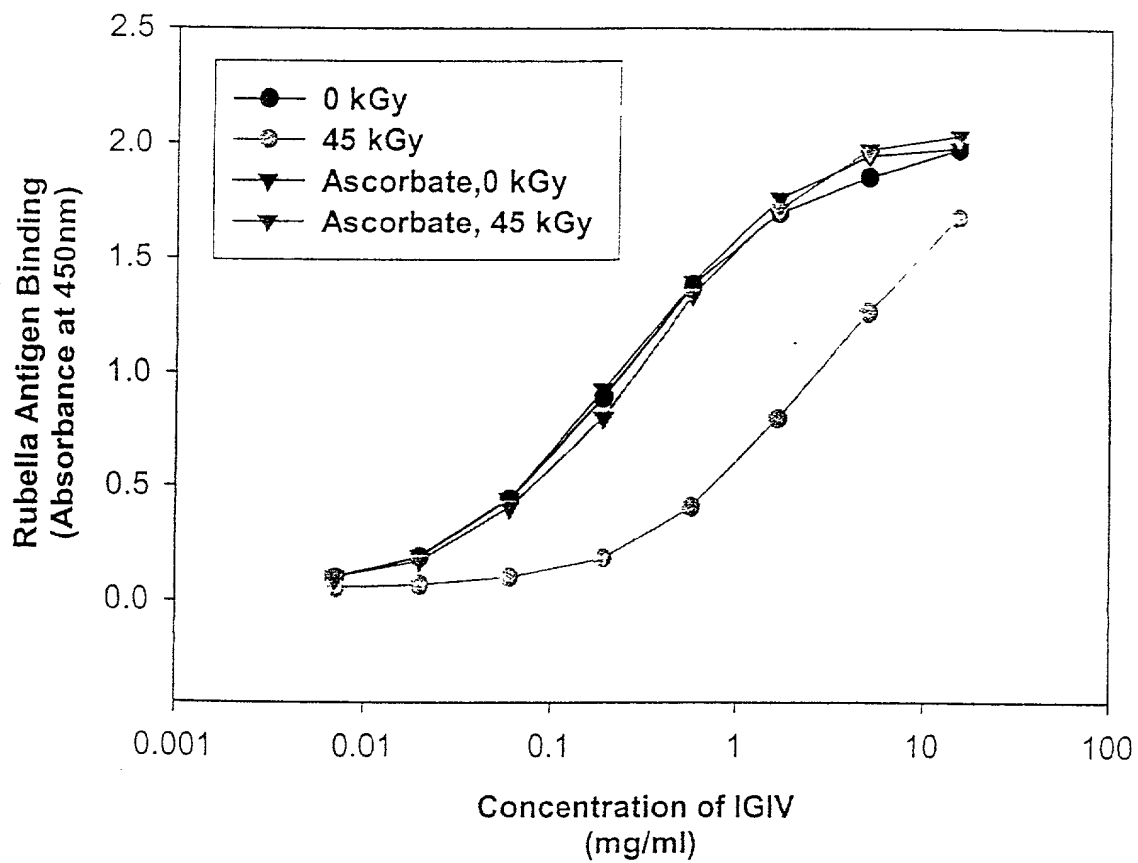
Gamma Irradiation of Liquid Anti-Human IgG1 in the Presence of 200mM Ascorbate



Gamma Irradiation of Liquid Anti-Human IgG1 in the Presence of 200mM Ascorbate and 200mM Gly-Gly

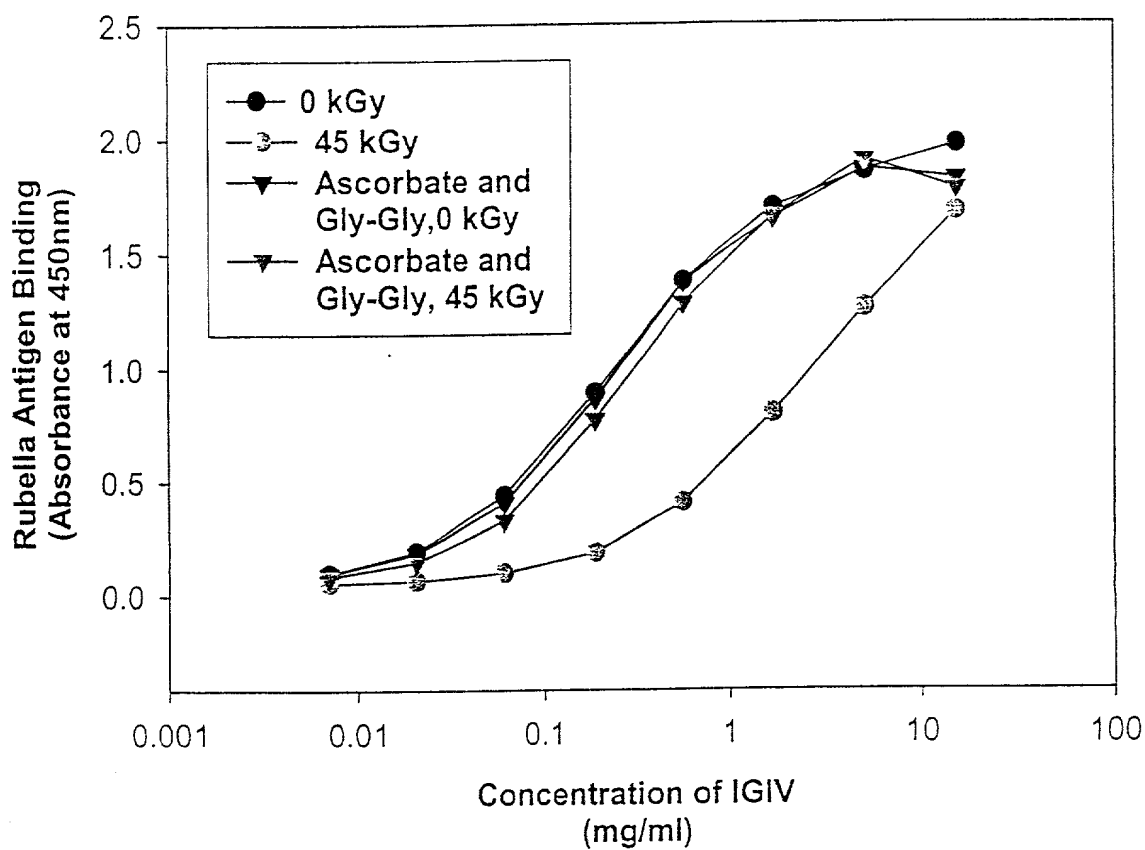


Gamma Irradiation of Liquid
IGIV in the Presence or Absence of 200 mM Ascorbate
Using Rubella IgG Assay



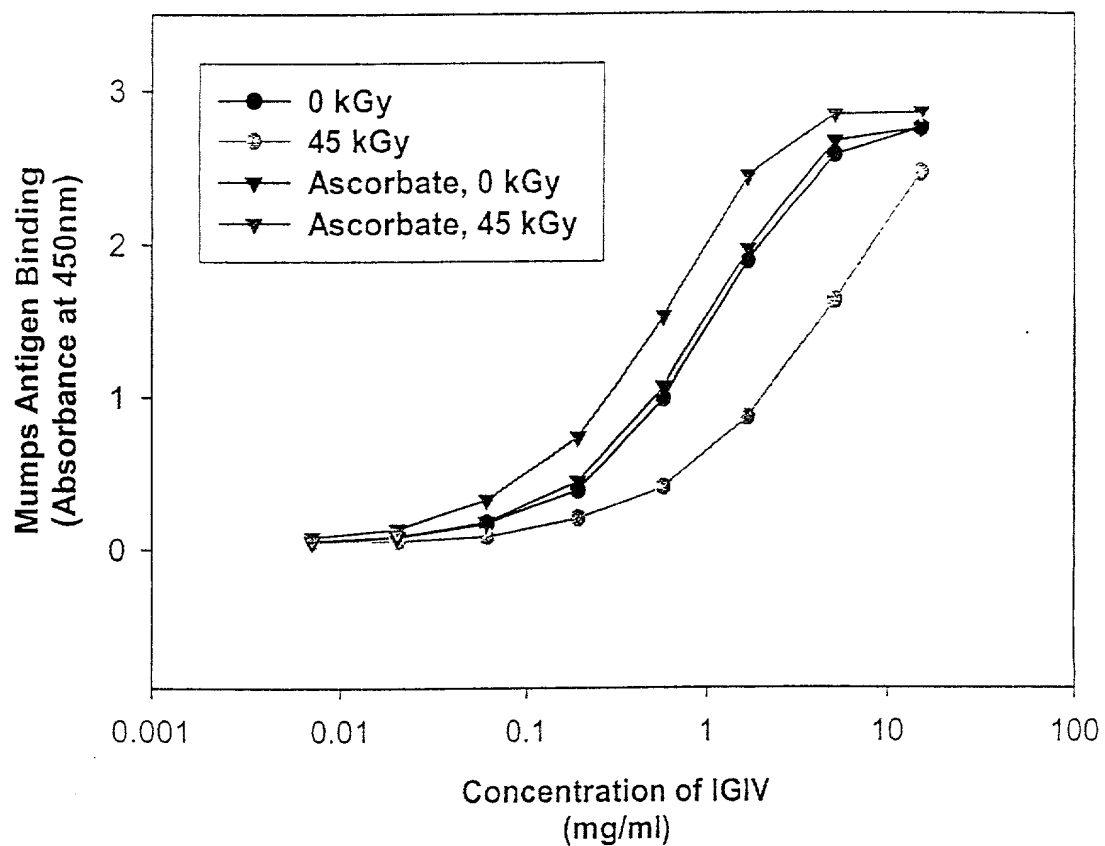
20A

Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate and 200 mM Gly-Gly Using Rubella IgG Assay



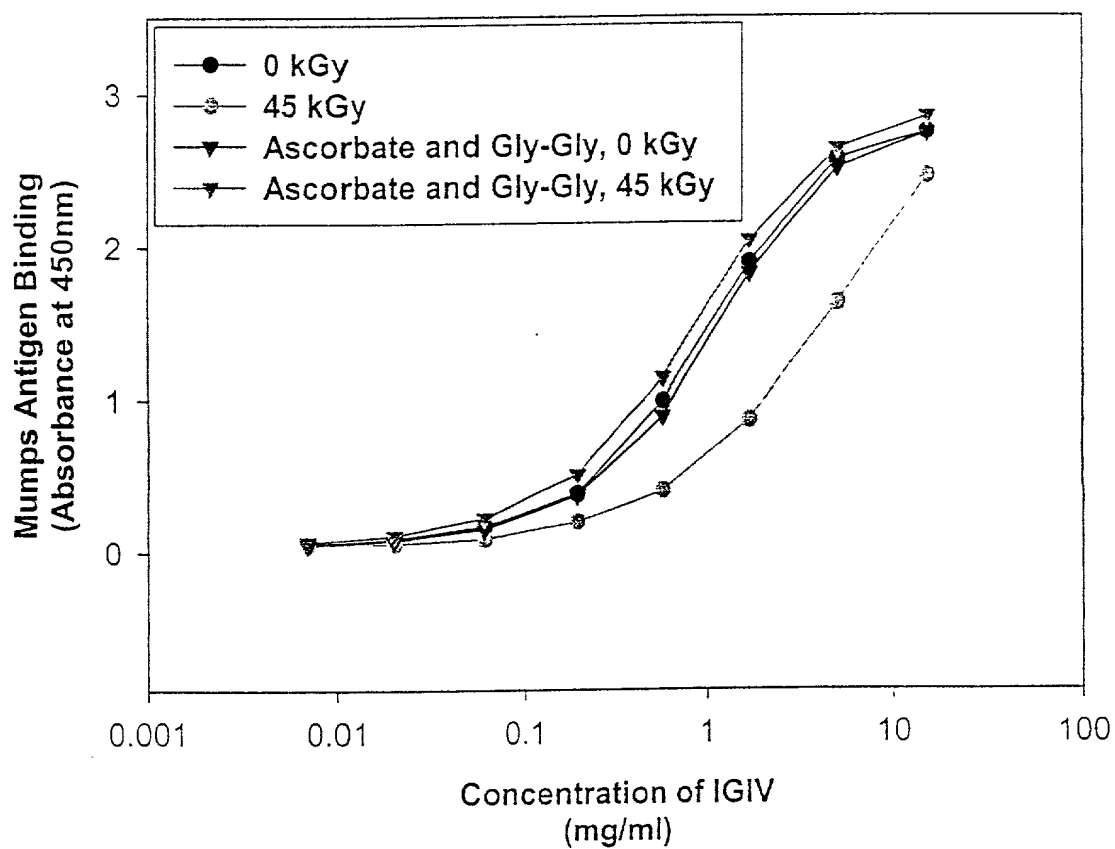
20B

Gamma Irradiation of Liquid
IGIV in the Presence or Absence of 200 mM Ascorbate
Using Mumps Assay



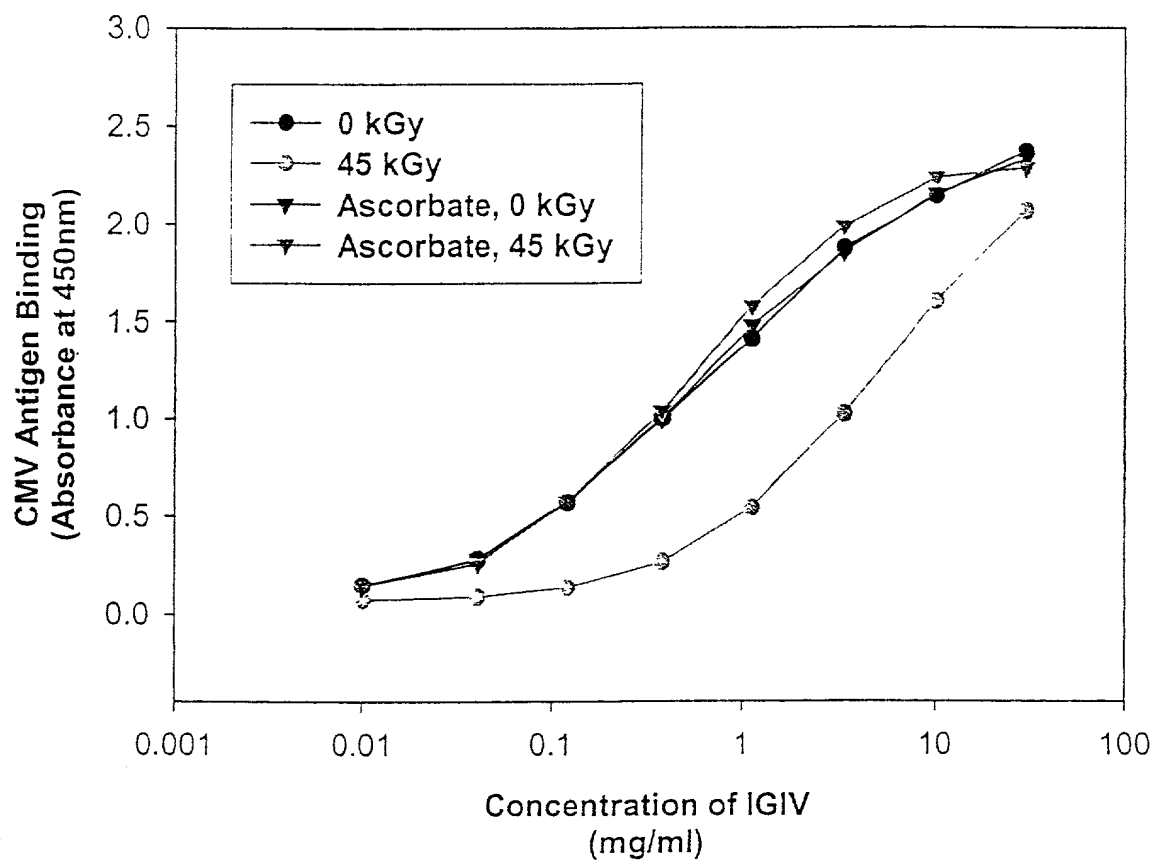
20C

Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate and 200 mM Gly-Gly Using Mumps Assay



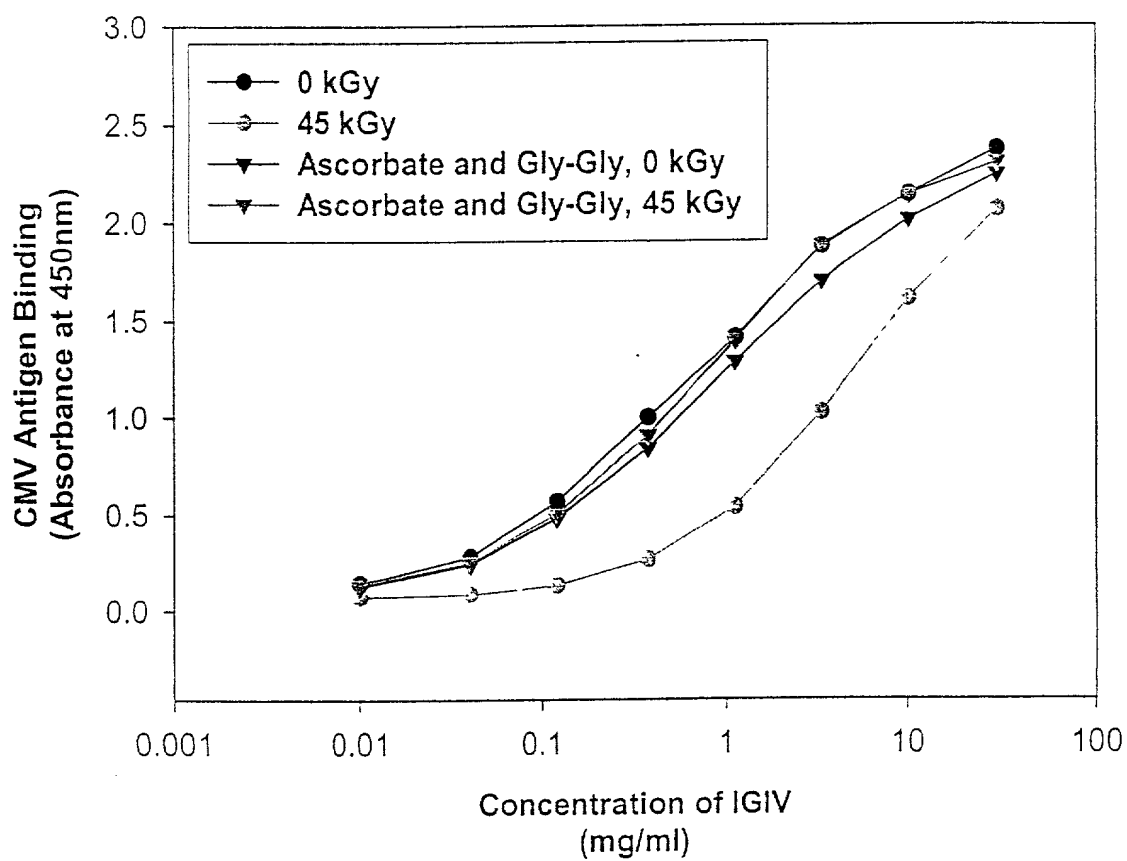
20D

Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate Using CMV Assay



20E

Gamma Irradiation of Liquid IGIV in the Presence or Absence of 200 mM Ascorbate and 200 mM Gly-Gly Using CMV Assay

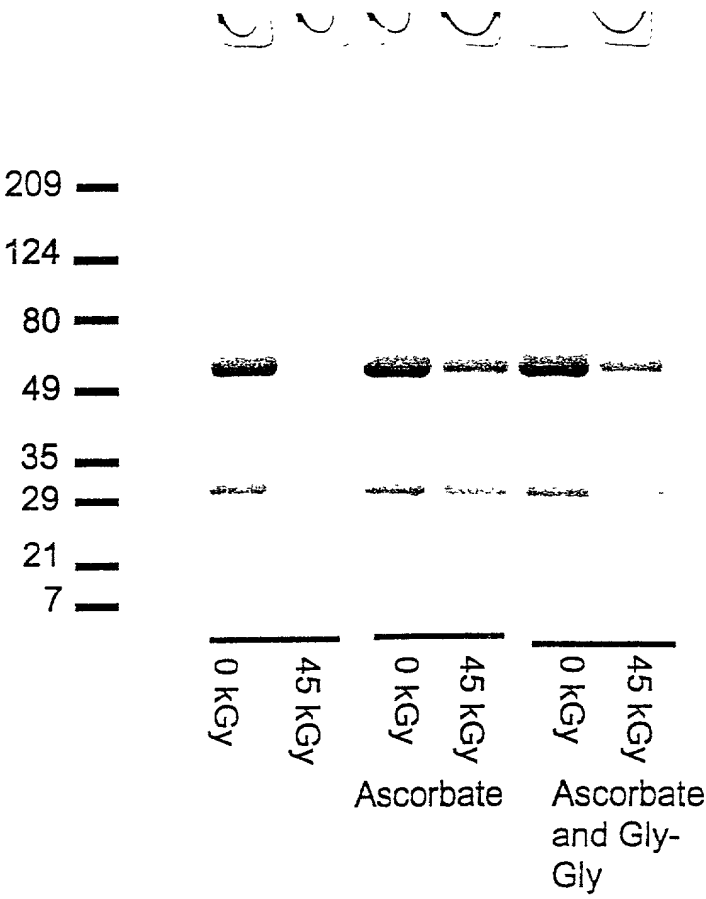


20F

SDS-PAGE of

Liquid IGIV

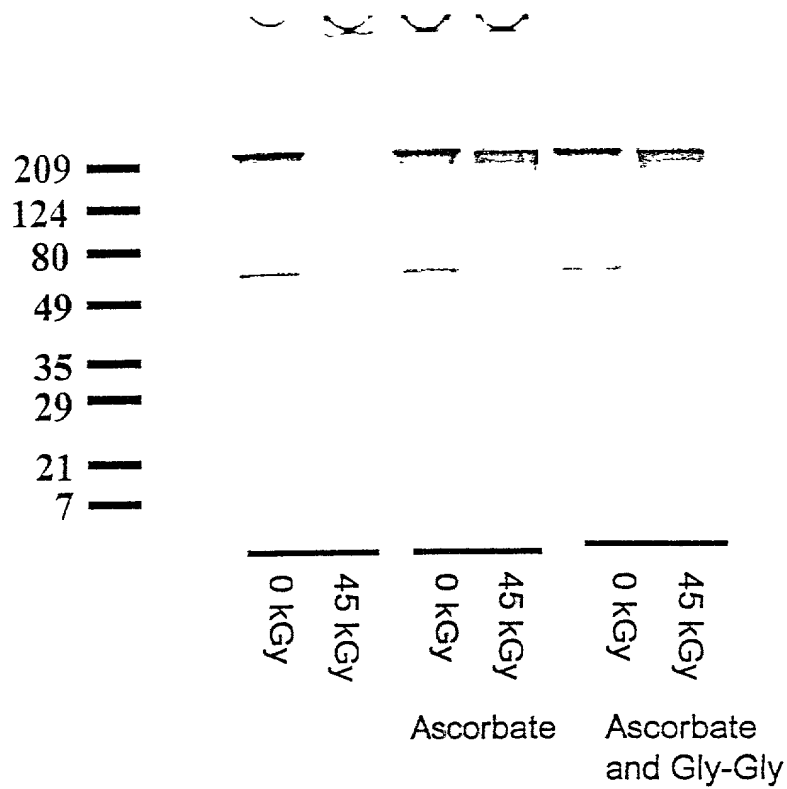
Liquid IGIV, Reduced 5-15%



206

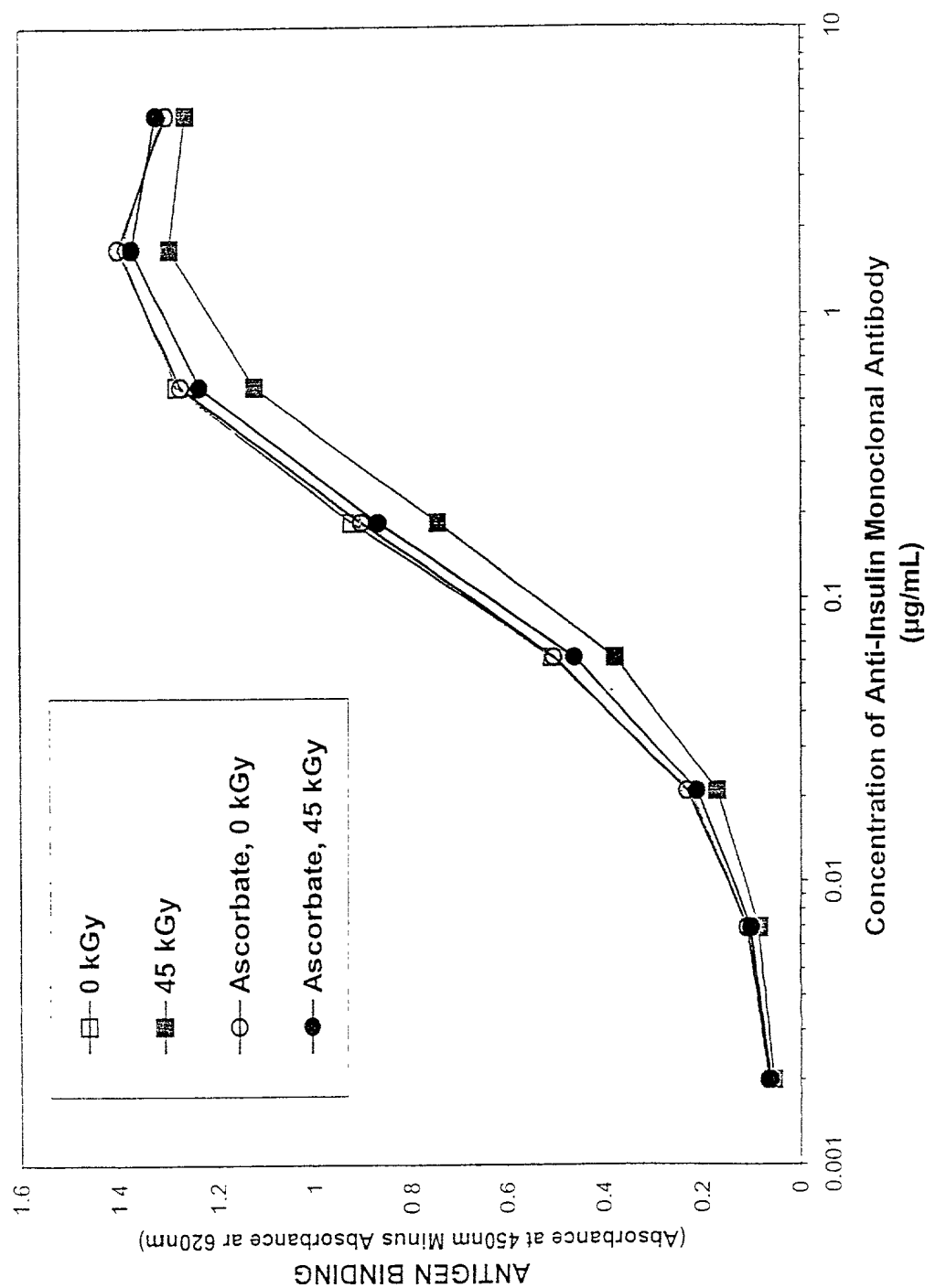
SDS-PAGE of Liquid IGIV

Liquid IGIV, Non-Reduced 5-15%

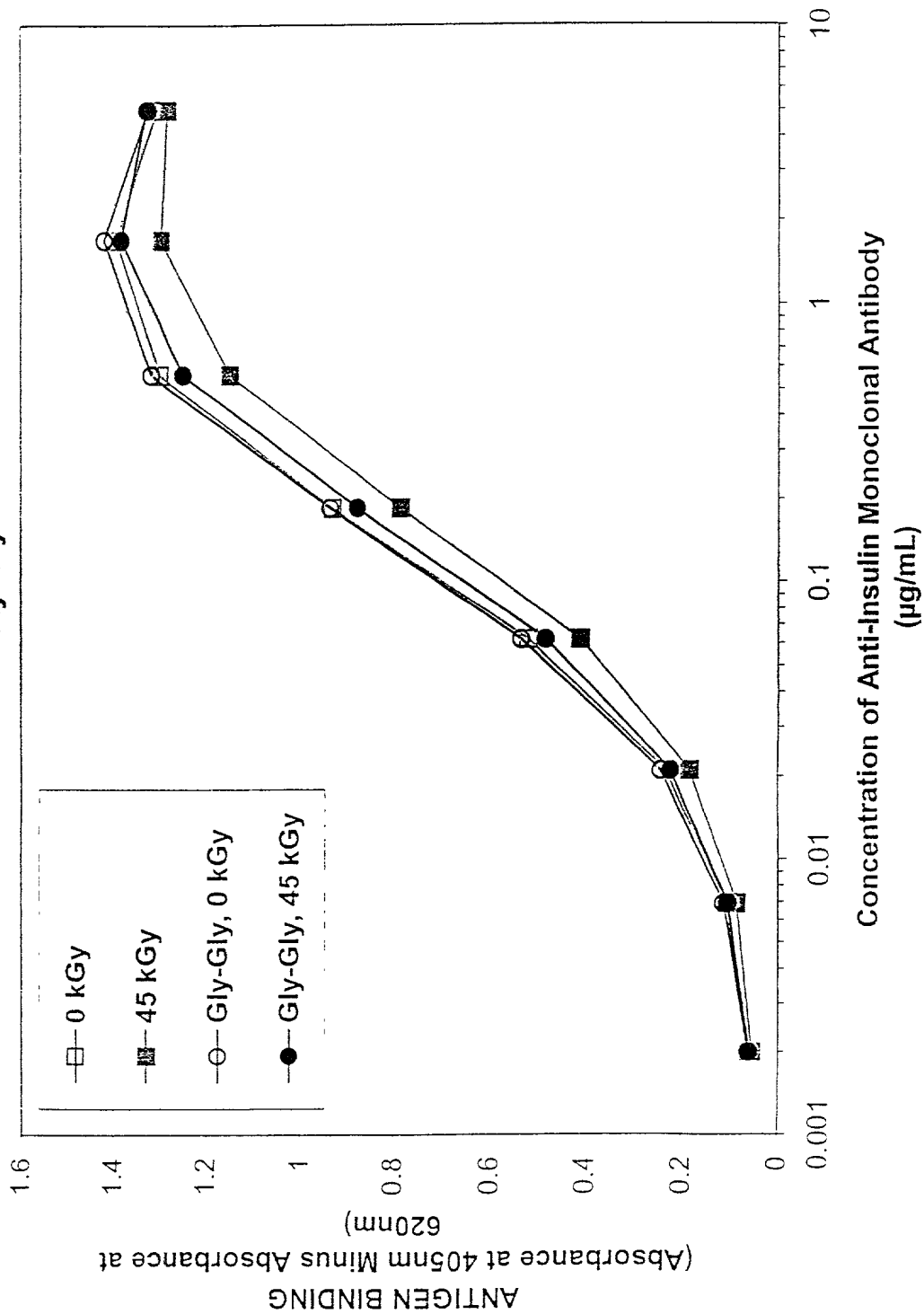


20H

Antibody at a High Dose Rate (30 kGy/h) in the Presence or Absence of 20 mM Ascorbate

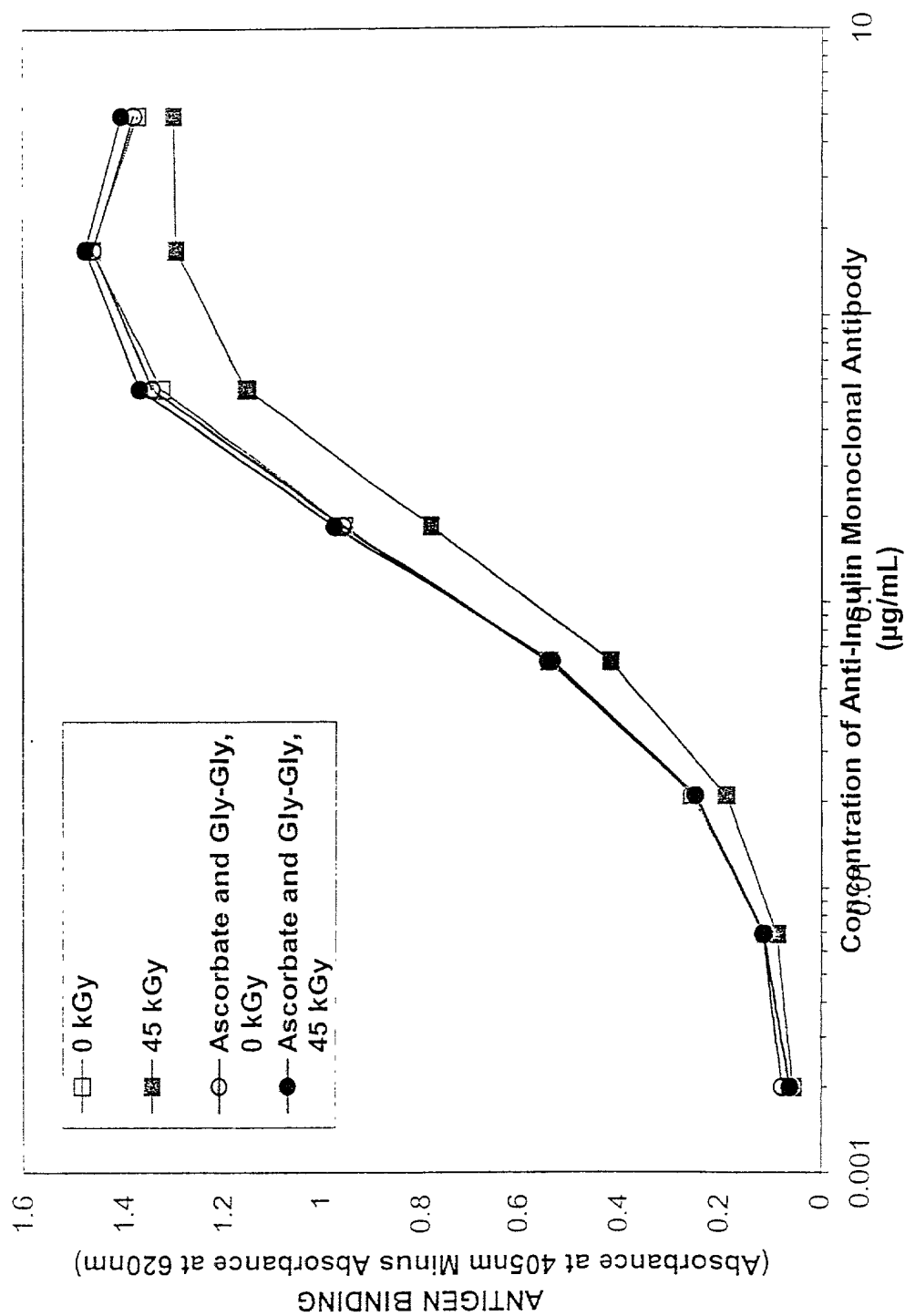


Antibody at a High Dose Rate (30 kGy/h) in the Presence or Absence of 20 mM Gly-Gly



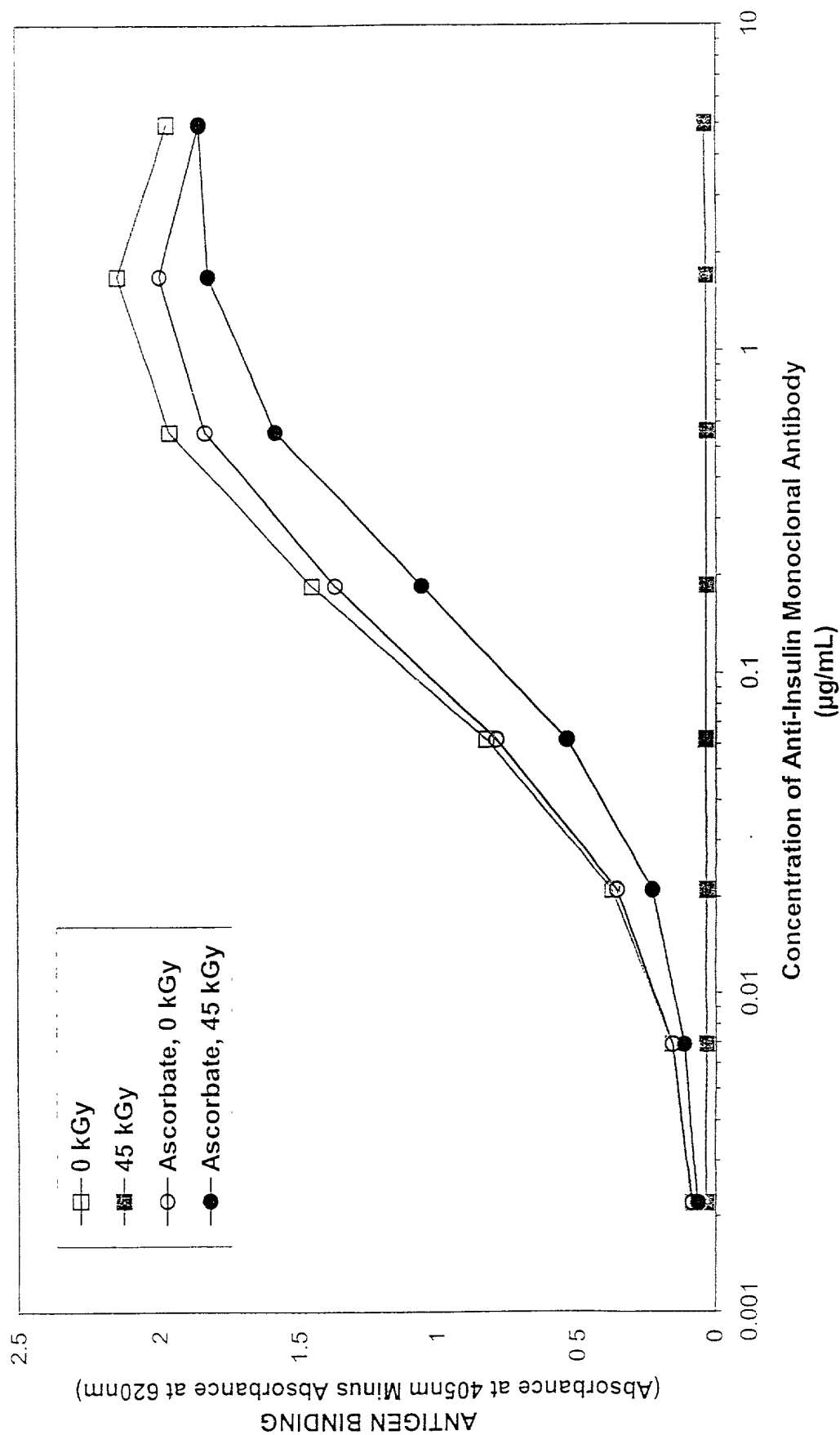
High Dose Rate 30 kGy/h in the Presence or Absence of 20 mM Ascorbate and 20 mM Gly-Gly

Gamma Irradiation of Freeze-Dried Anti-Insulin Monoclonal Antibody at a

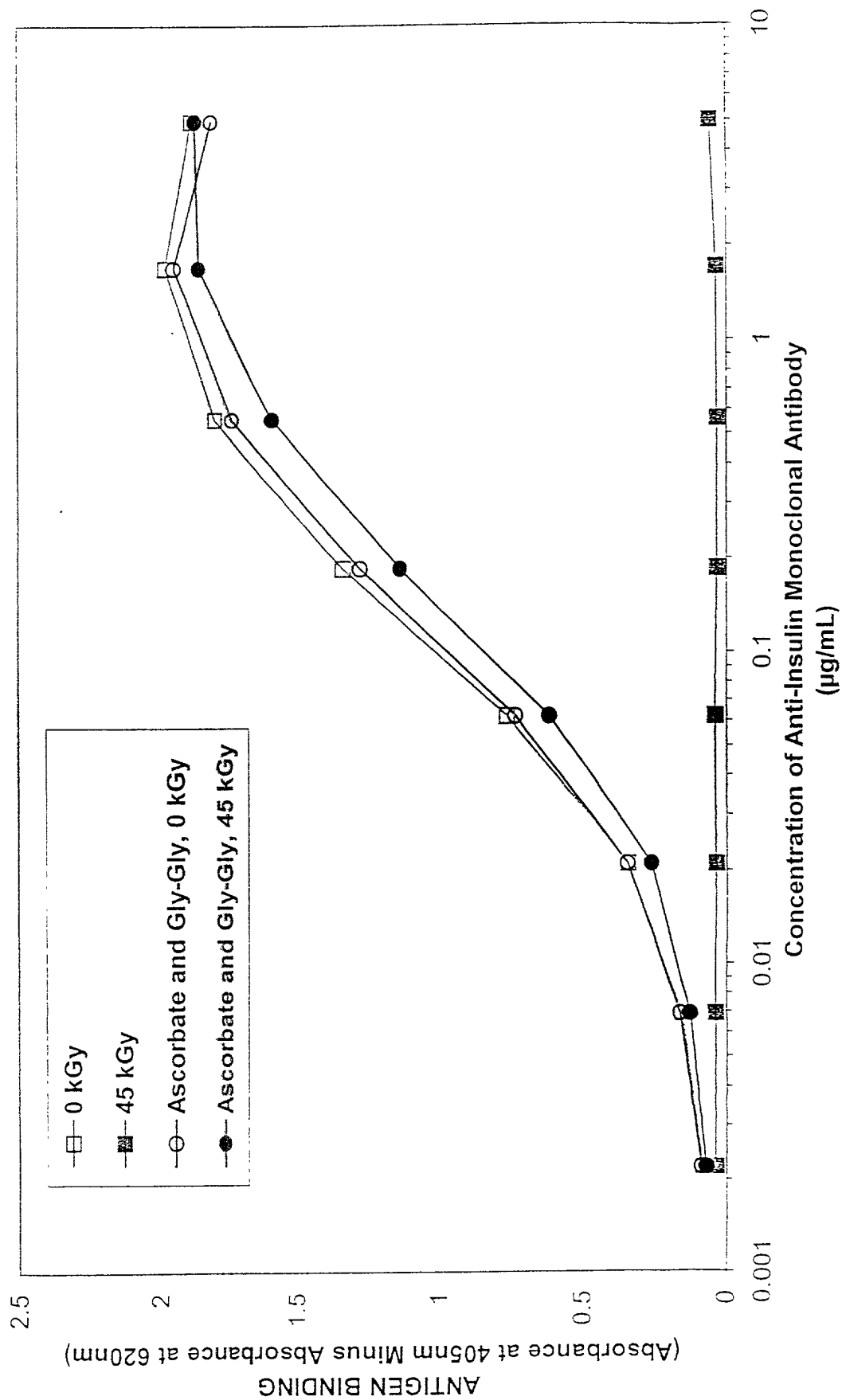


21C

Gamma Irradiation of Anti-Insulin Monoclonal Antibody in the Presence or Absence of 200 mM Ascorbate



Gamma Irradiation of Anti-Insulin Monoclonal Antibody in the Presence or Absence of 200 mM Ascorbate and 200 mM Gly-Gly

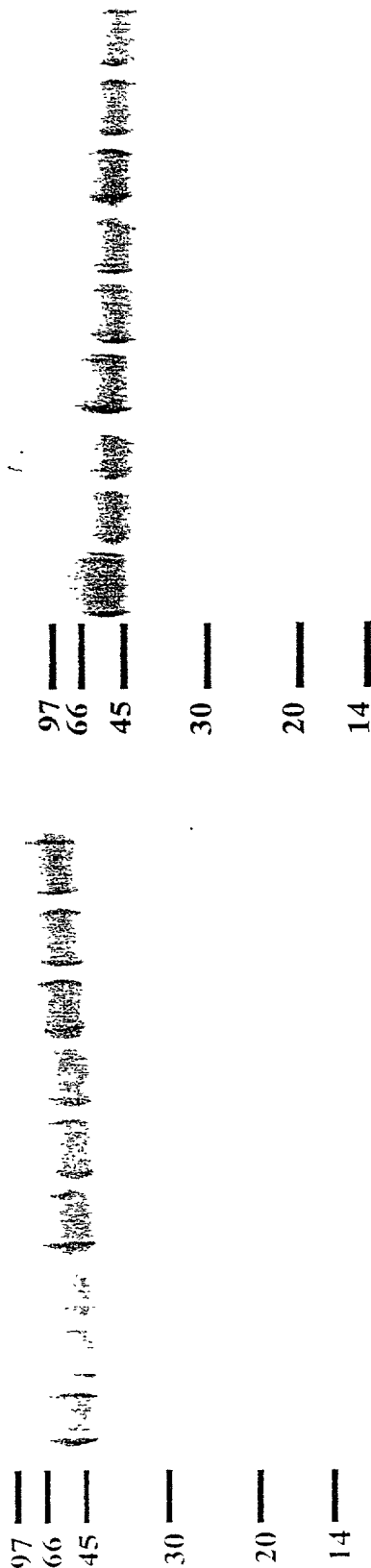


22B

SDS-PAGE for a Glycosidase

Nonreduced

Reduced

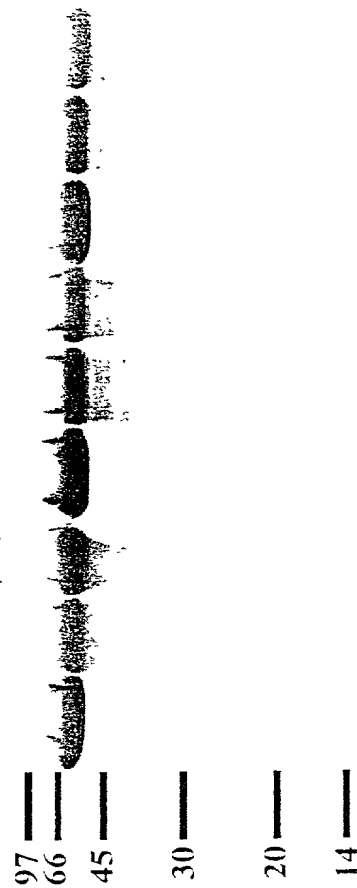


5.4 kGy/hr, 45 kGy	Ascorbate and Gly-Gly
1.7 kGy/hr, 45 kGy	
0 kGy	
5.4 kGy/hr, 45 kGy	Ascorbate
1.7 kGy/hr, 45 kGy	
0 kGy	
5.4 kGy/hr, 45 kGy	
1.7 kGy/hr, 45 kGy	
0 kGy	
5.4 kGy/hr, 45 kGy	Ascorbate and Gly-Gly
1.7 kGy/hr, 45 kGy	
0 kGy	

23A

SDS-PAGE for a Sulfatase

Reduced

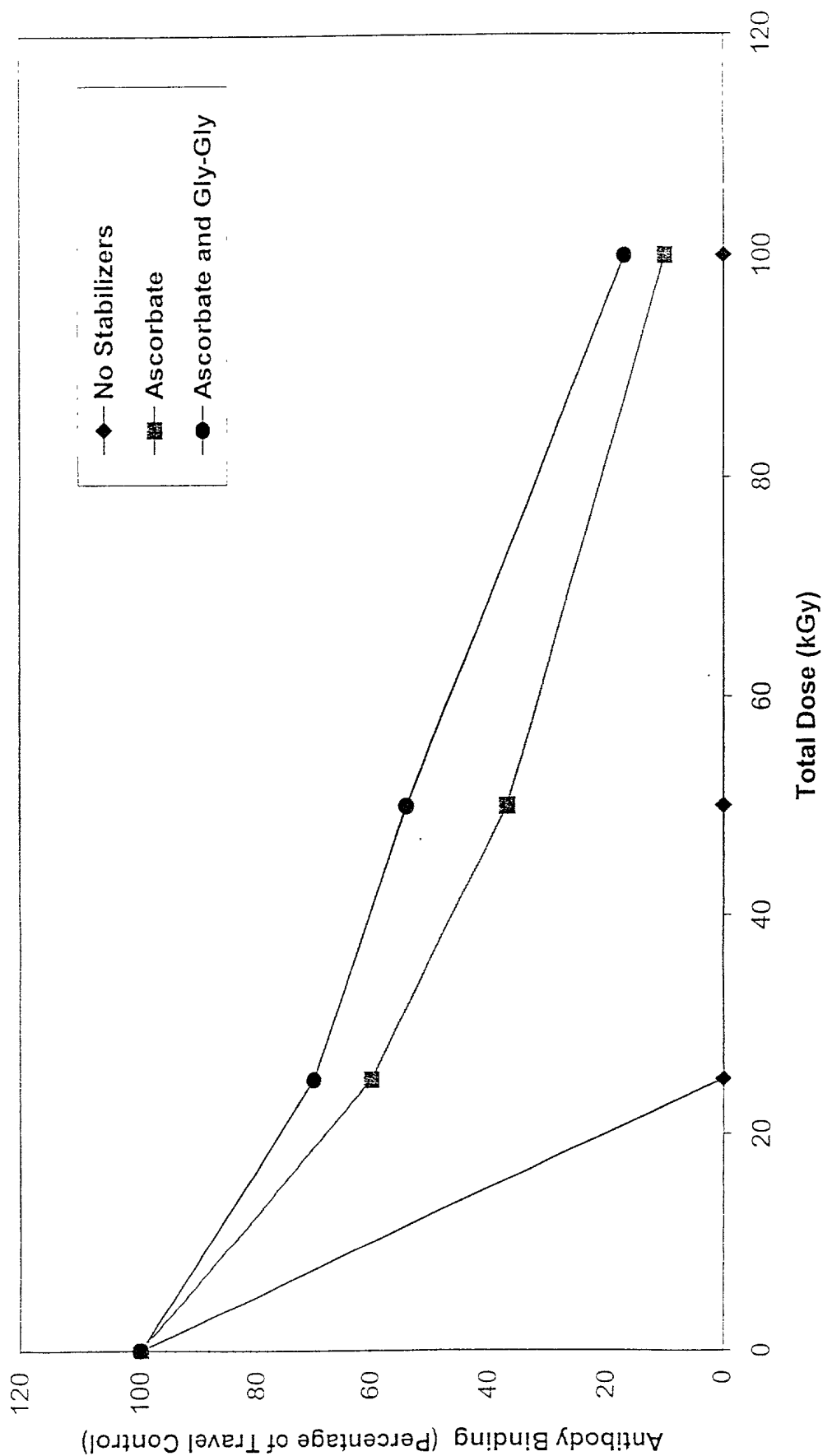


5.4 kGy/hr, 45 kGy	Ascorbate	Ascorbate and Gly-Gly
1.7 kGy/hr, 445 kGy		
0 kGy		
5.4 kGy/hr, 45 kGy	Ascorbate	
1.7 kGy/hr, 45 kGy		
0 kGy		
5.4 kGy/hr, 45 kGy		
1.7 kGy/hr, 45 kGy		
0 kGy		

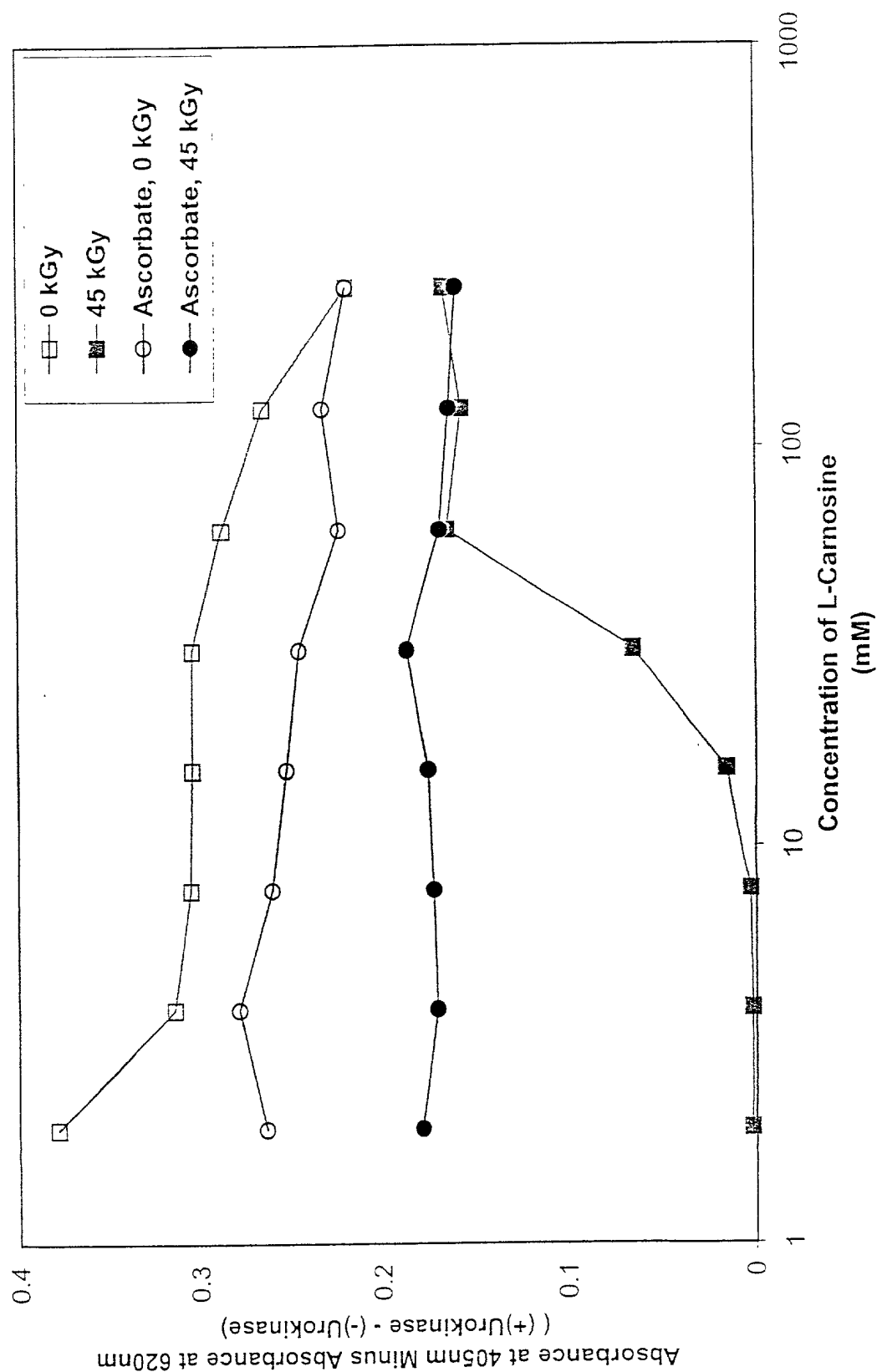
23B



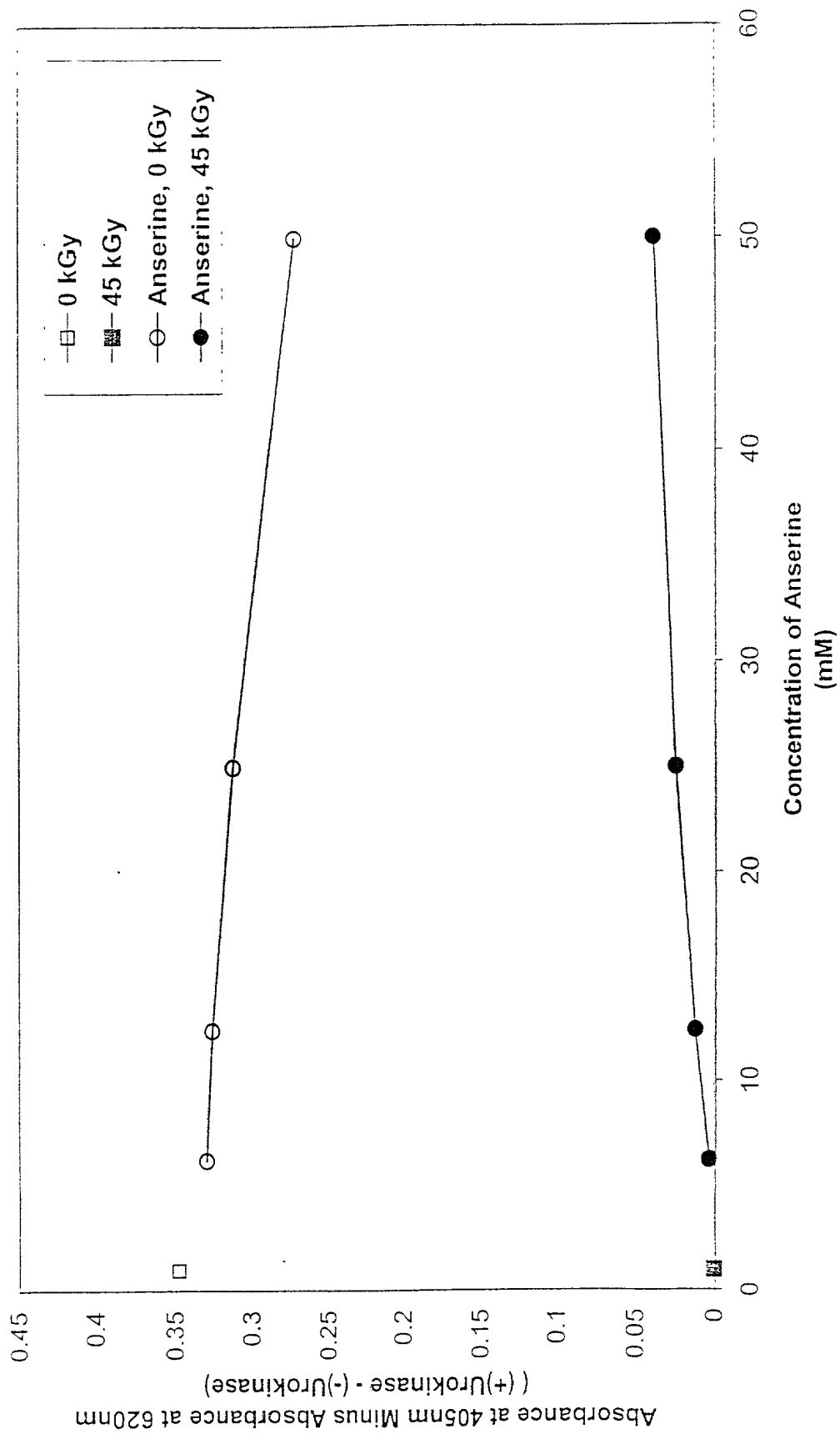
Gamma Irradiation of Liquid Anti-Insulin Monoclonal Antibody in the Presence or Absence of 200 mM Ascorbate Alone or in Combination With 200 mM Gly-Gly



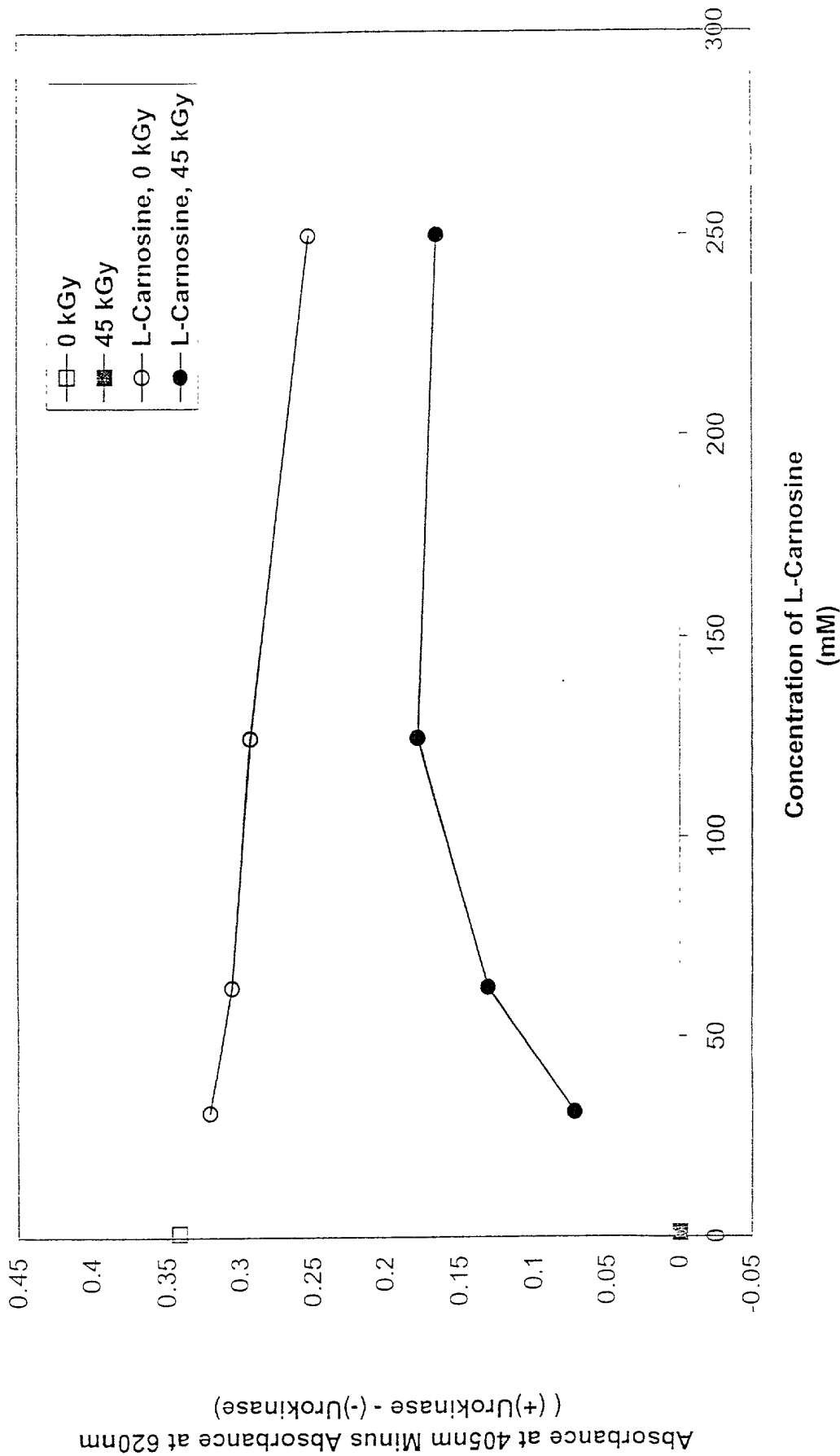
Gamma Irradiation of Liquid Urokinase, With L-Carnosine, at 45 kGy in the Presence or Absence of 50mM Ascorbate



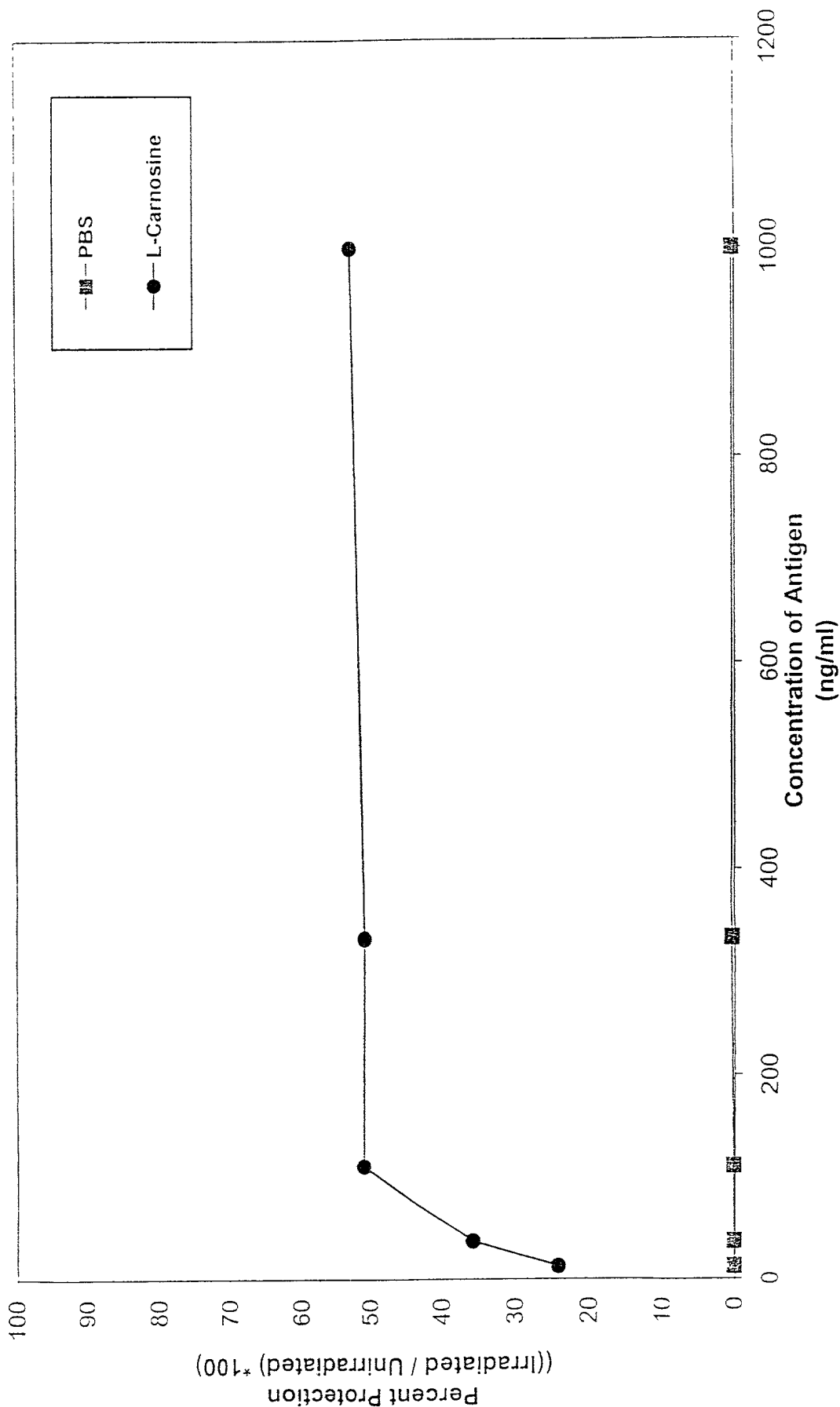
Gamma Irradiation of Liquid Urokinase in the Presence or Absence of Anserine



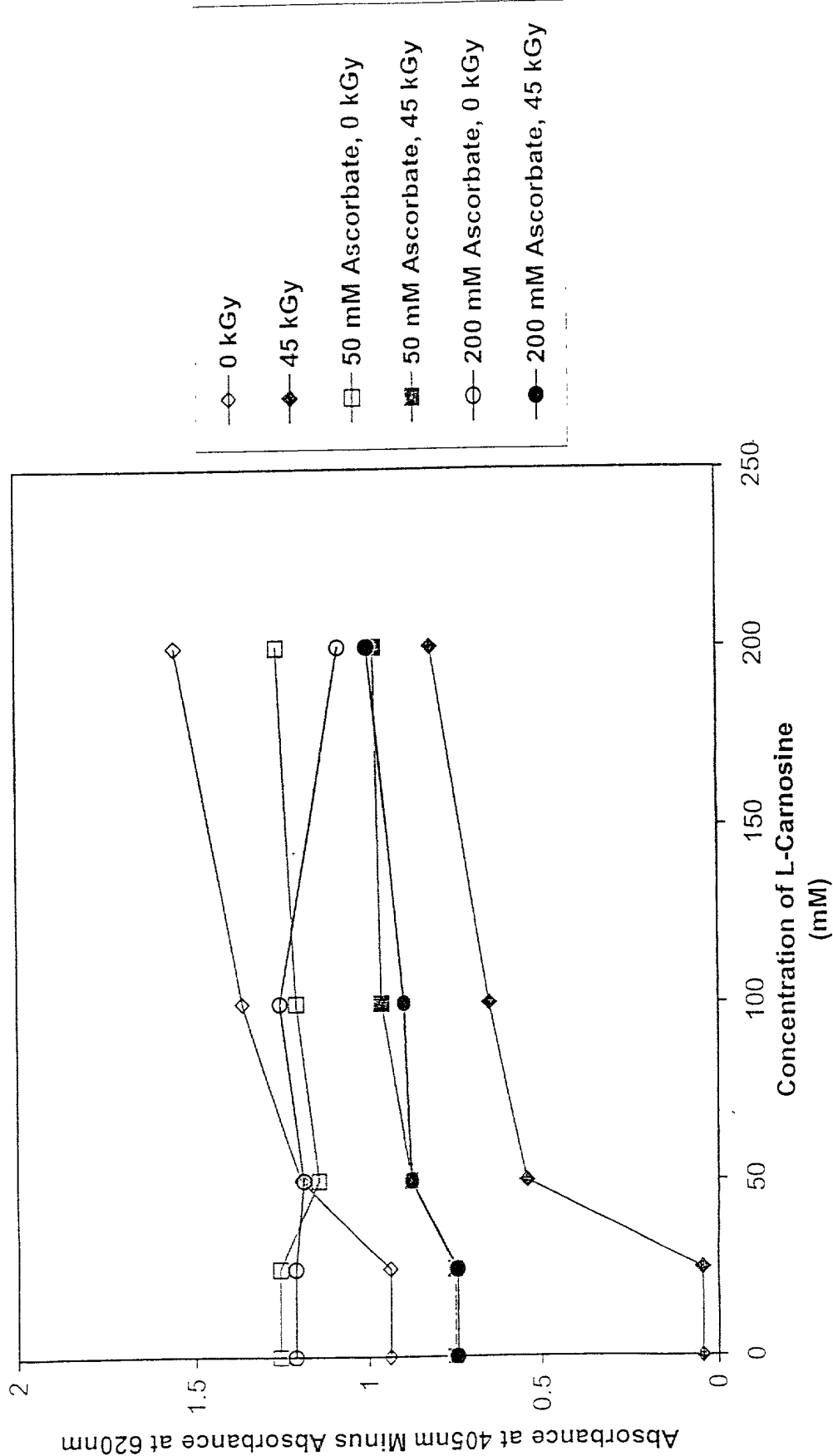
Gamma Irradiation of Liquid Urokinase in the Presence or Absence of L-Carnosine



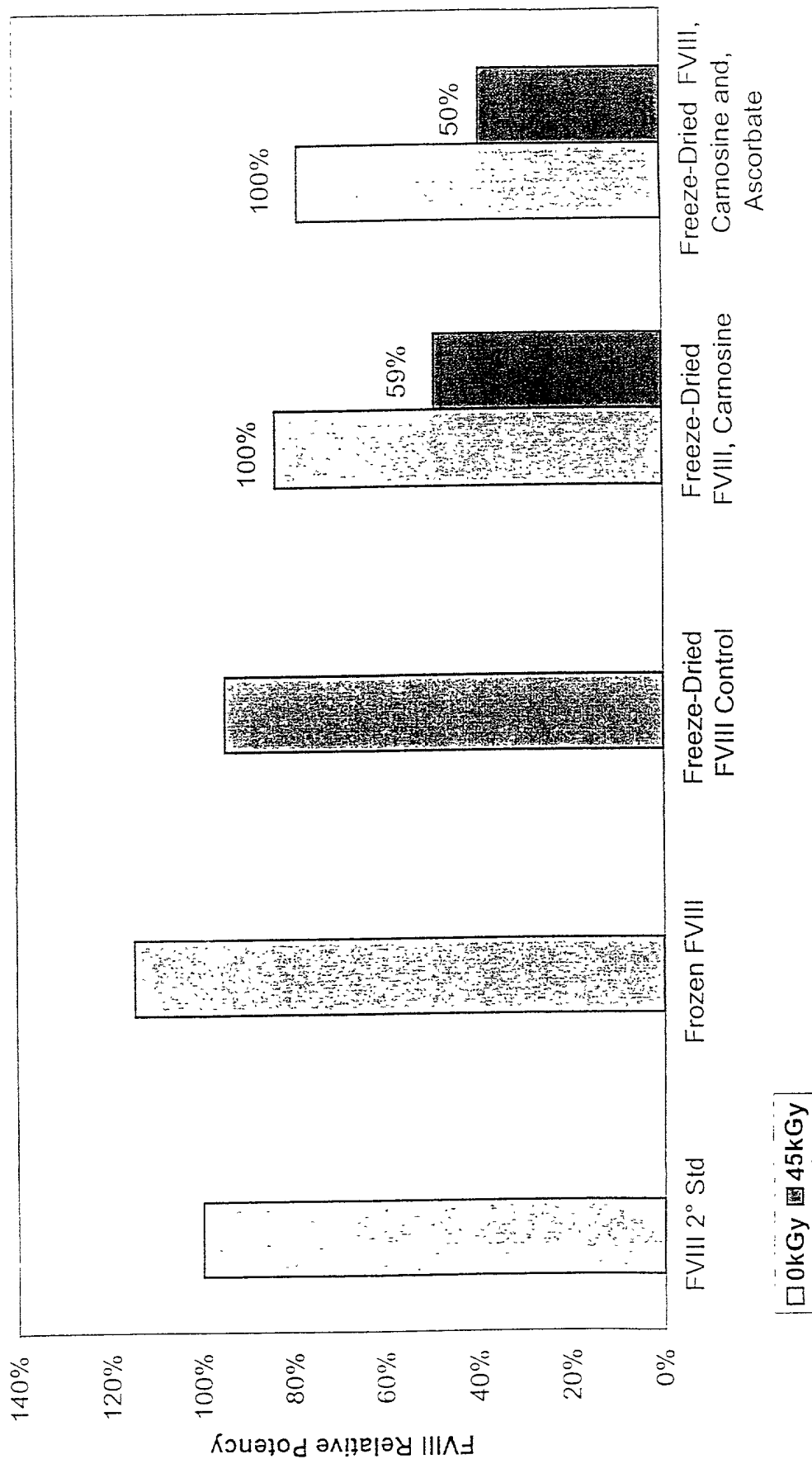
Gamma Irradiation of Immobilized Anti-Insulin Monoclonal Antibody, to 45 kGy, in the Presence or Absence of 100 mM L-Carnosine



Gamma Irradiation of Immobilized Monoclonal Antibody in the Presence or Absence of L-Carnosine and Ascorbate

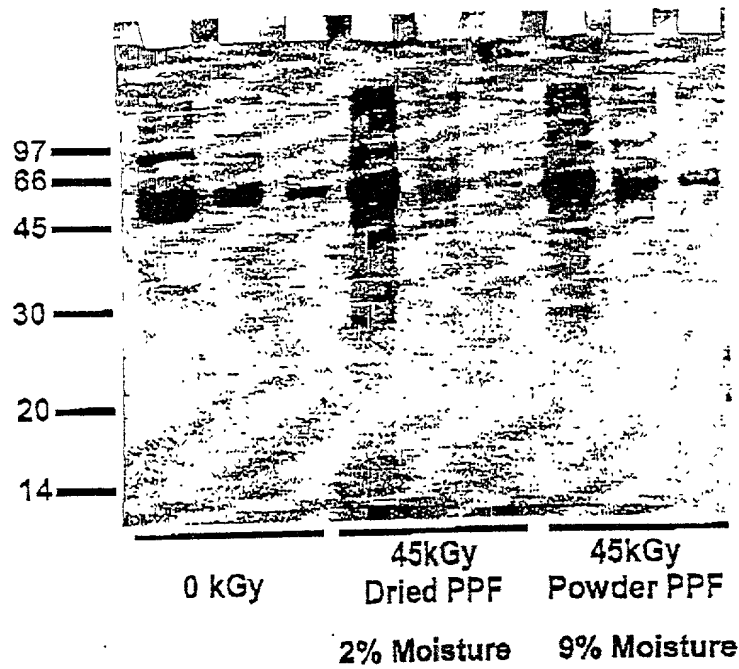


Gamma Irradiation of Freeze-Dried FVIII in the Presence or Absence of L-Carnosine Alone or in Combination with Ascorbate

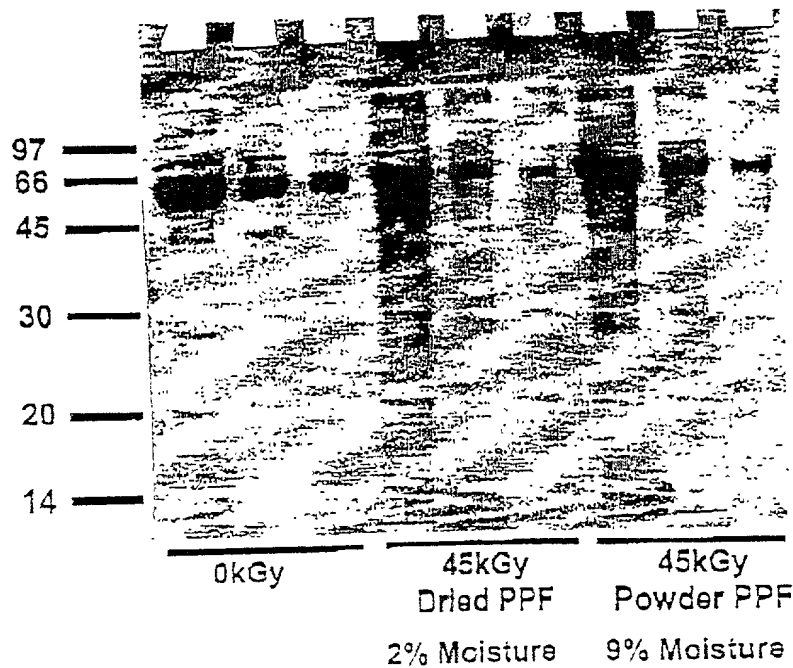


Gamma Irradiation of Dried and Powder PPF

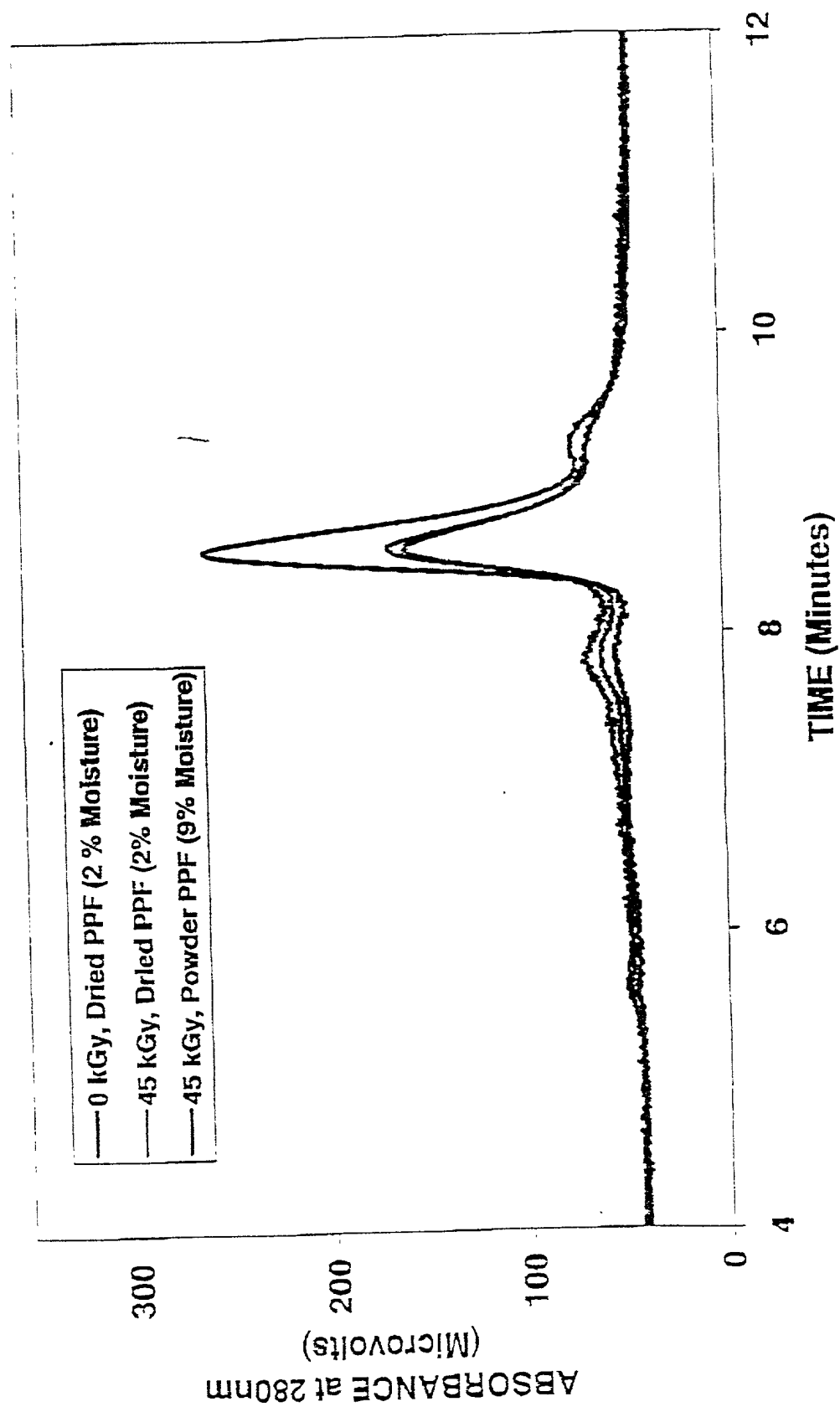
Nonreduced, 12.5%



Reduced, 12.5%

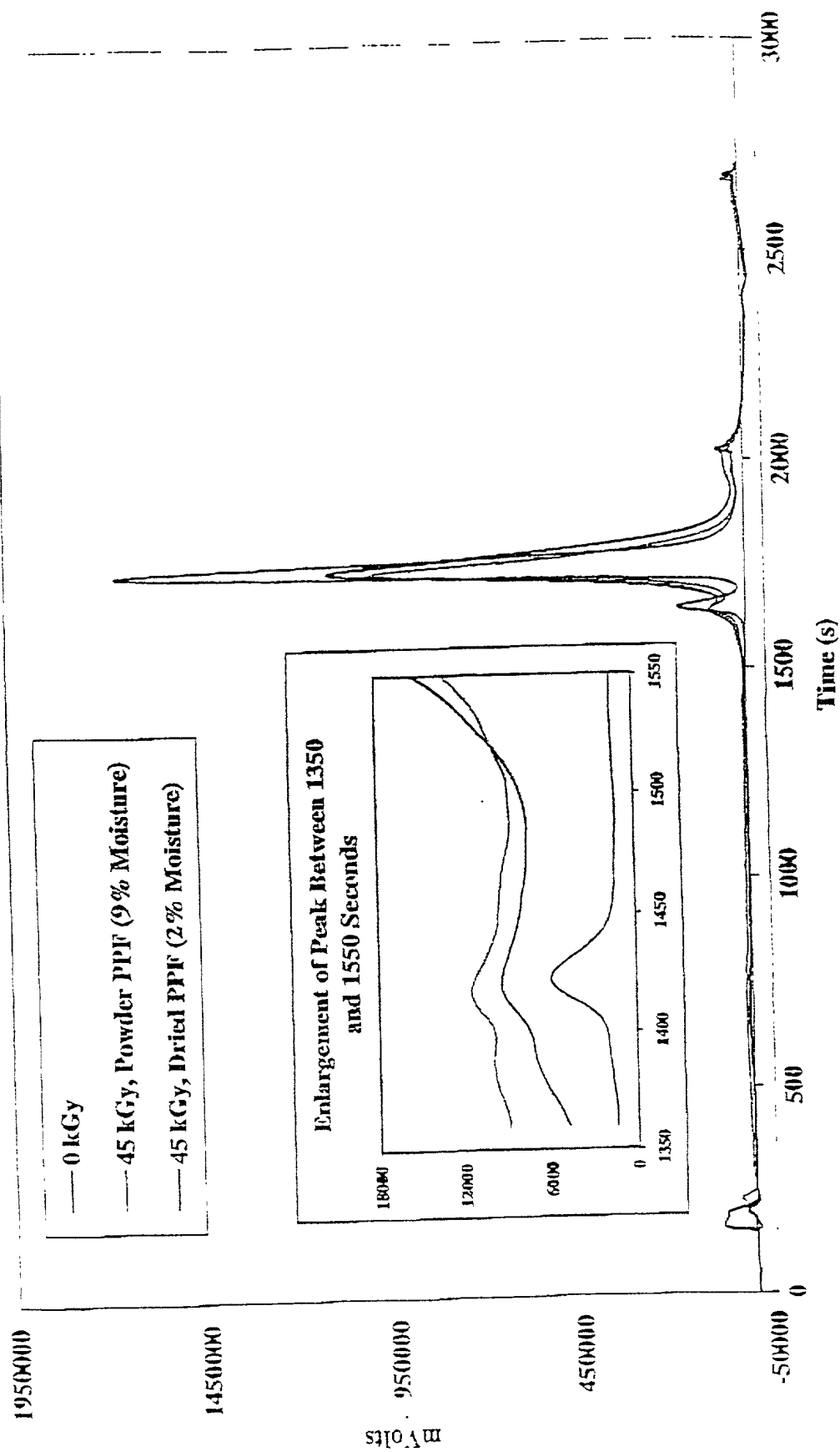


Gamma Irradiation of Dried and Powder PPF



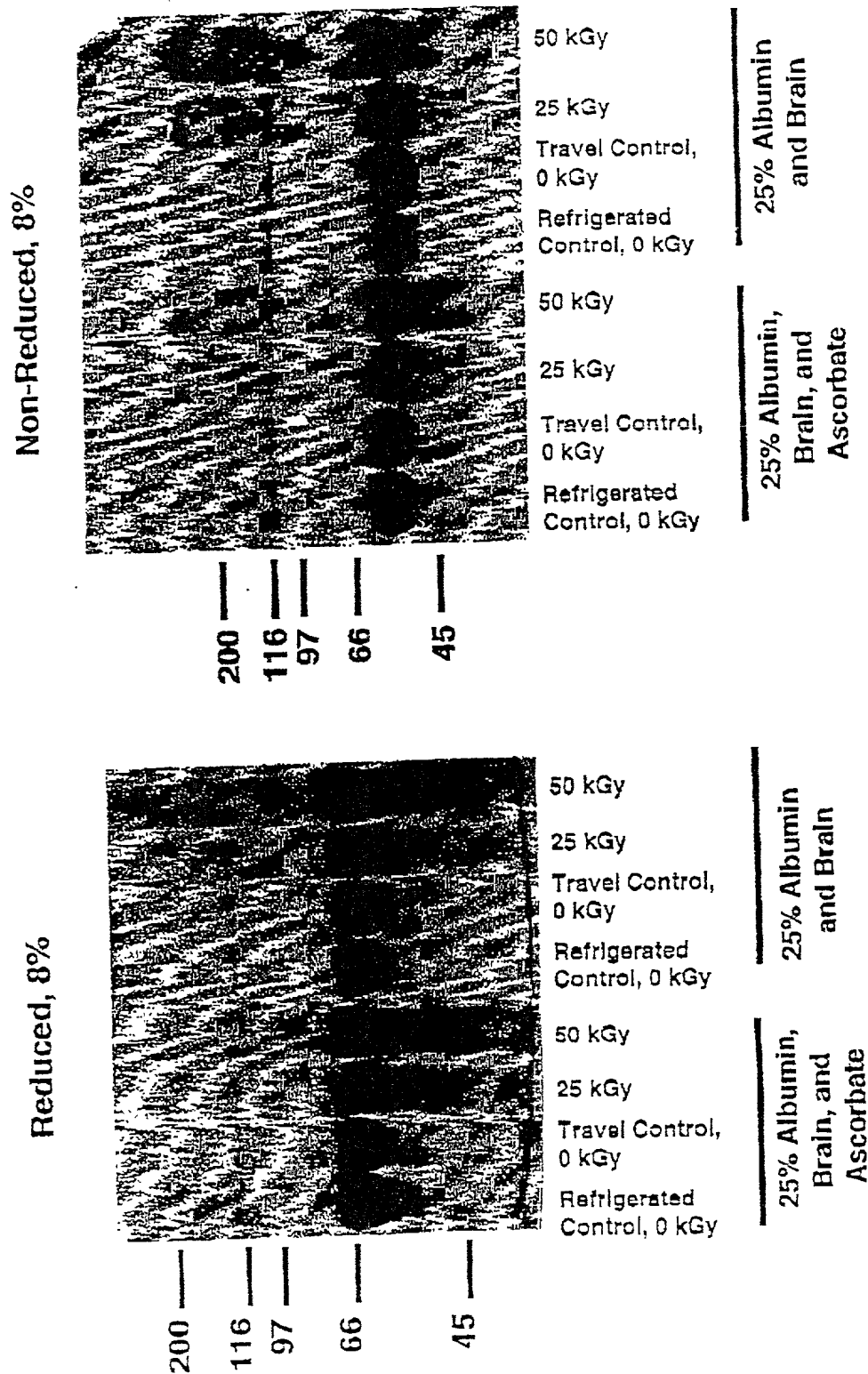
323

Gamma Irradiation of Dried and Powder PPF



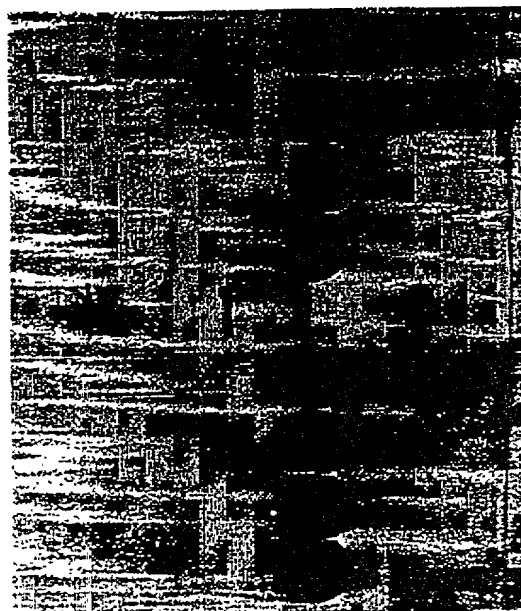
32C

Gamma Irradiation (to 25 and 50 kGy) of 25% Albumin in the Presence of Brain Alone or in Combination with 200 mM Ascorbate



Gamma Irradiation (to 25 and 50 kGy) of 25% Albumin in the Presence or Absence of 200 mM Ascorbate

Reduced, 8%



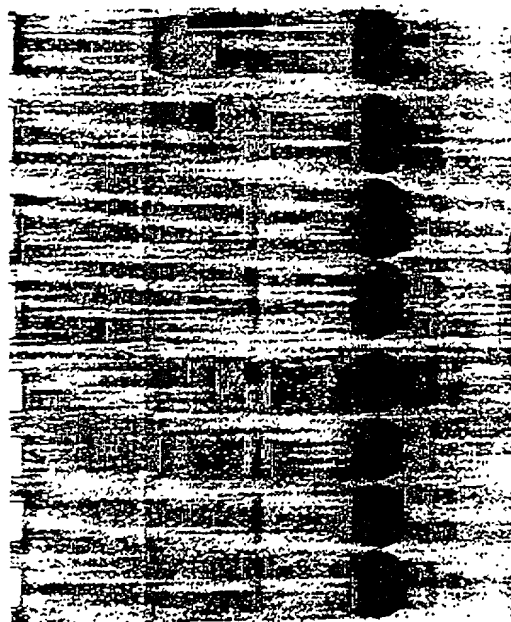
200 —
116 —
97 —
66 —
45 —

50 kGy
25 kGy
Travel Control, 0 kGy
Refrigerated Control, 0 kGy
50 kGy
25 kGy
Travel Control, 0 kGy
Refrigerated Control, 0 kGy

25% Albumin
And Ascorbate

25% Albumin

Non-Reduced, 8%



200 —
116 —
97 —
66 —
45 —

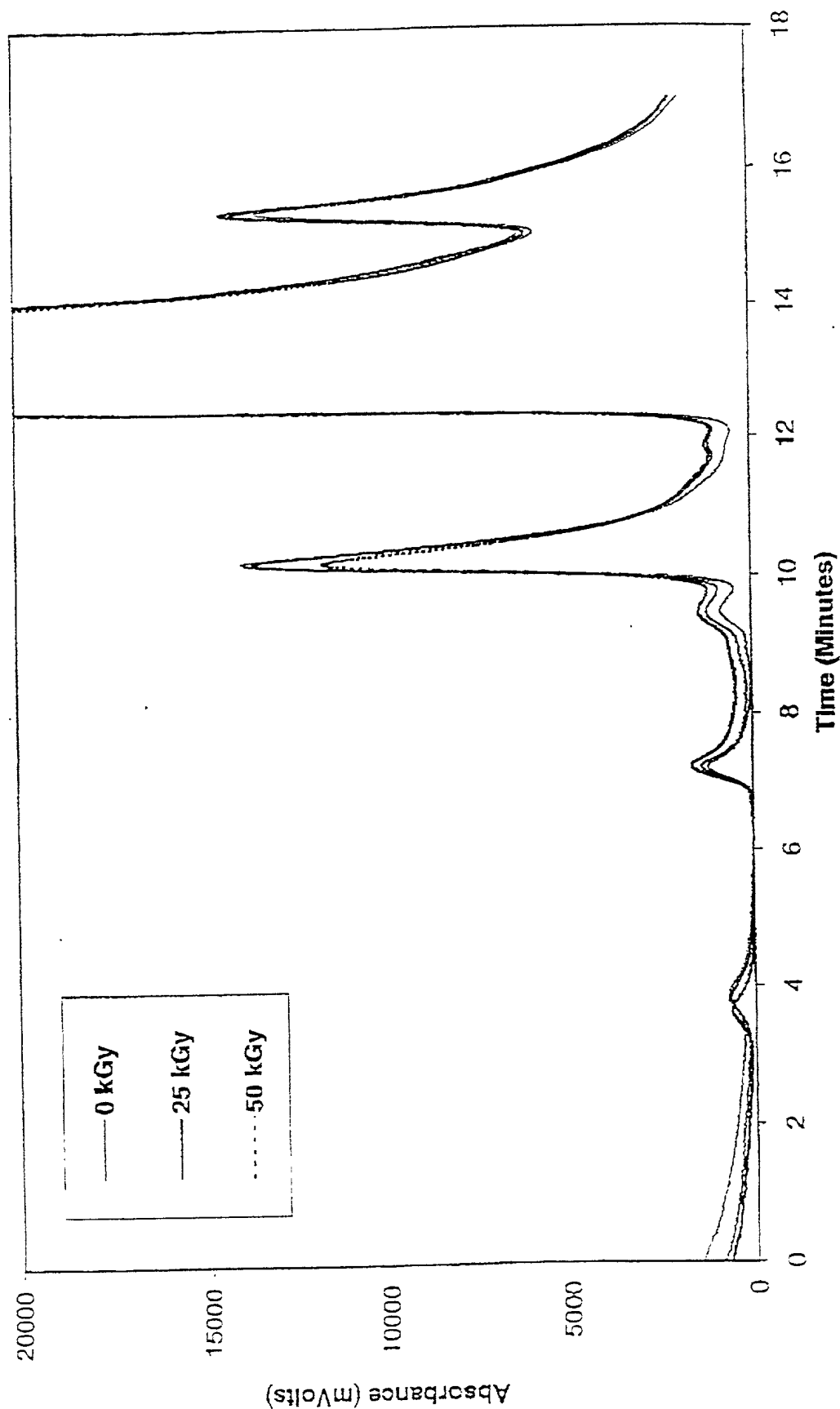
50 kGy
25 kGy
Travel Control, 0 kGy
Refrigerated Control, 0 kGy
50 kGy
25 kGy
Travel Control, 0 kGy
Refrigerated Control, 0 kGy

25% Albumin
And Ascorbate

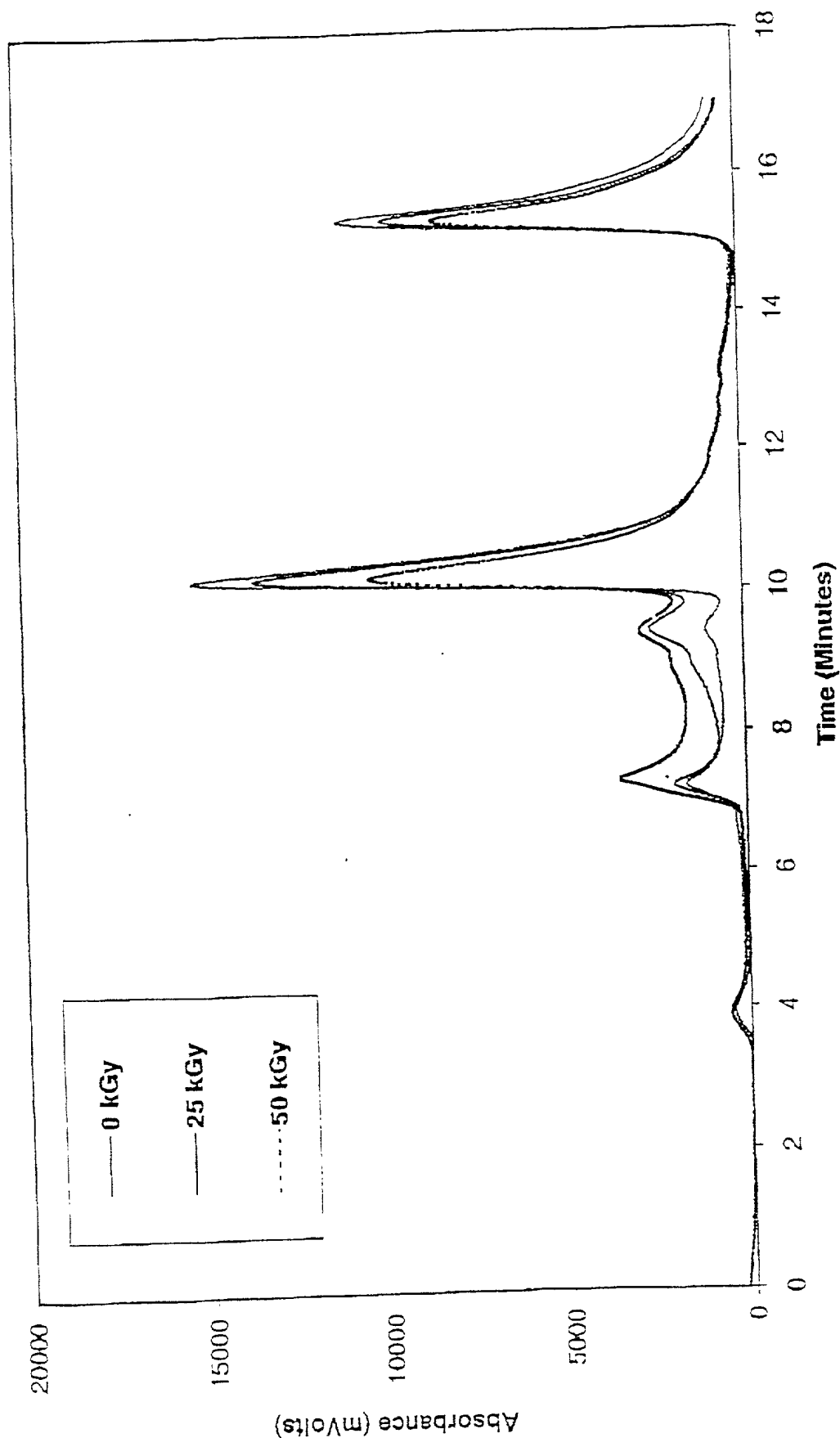
25% Albumin

33B

Gamma Irradiation of 25% Albumin in the Presence of Brain and 200 mM Ascorbate

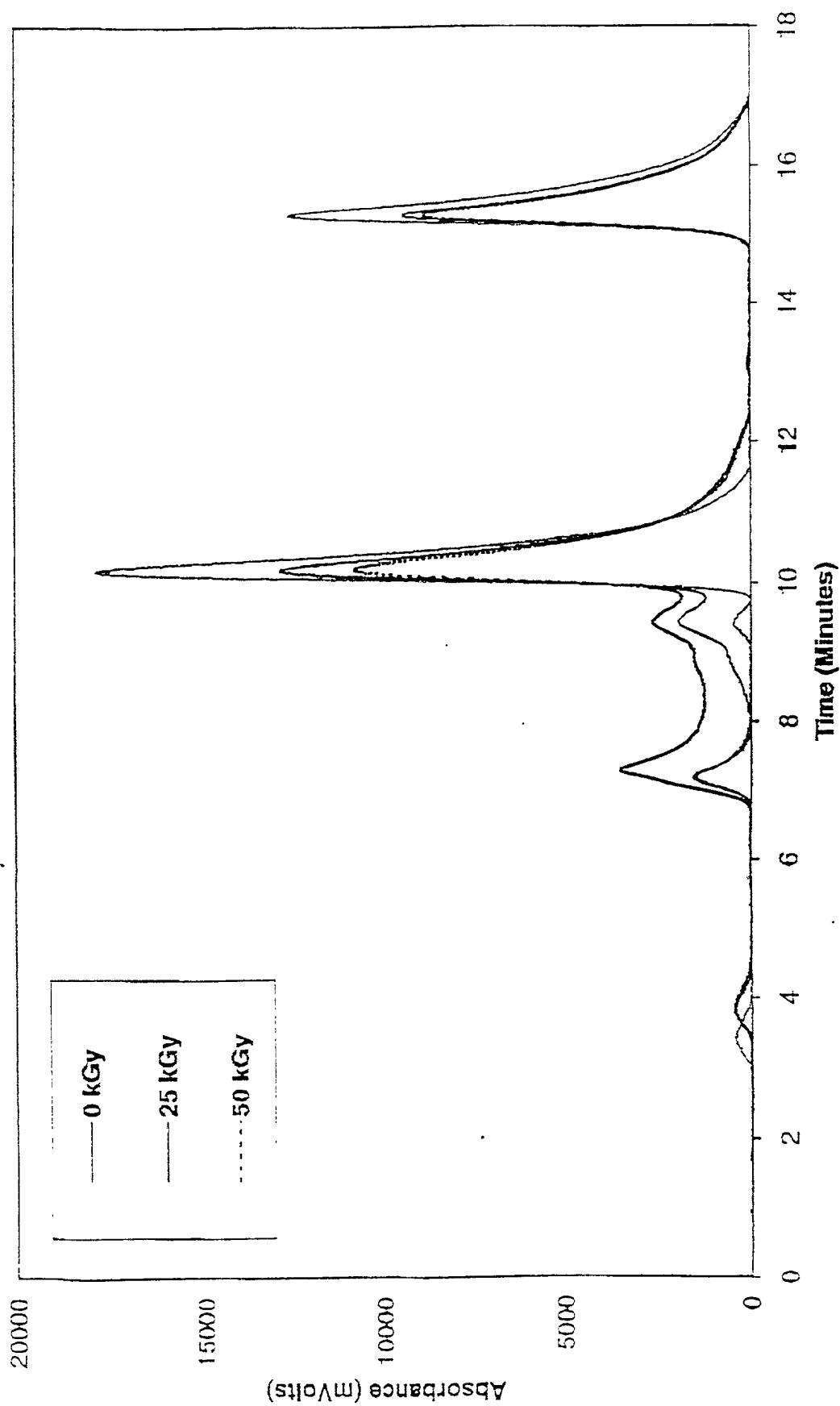


Gamma Irradiation of 25% Albumin in the Presence of Brain



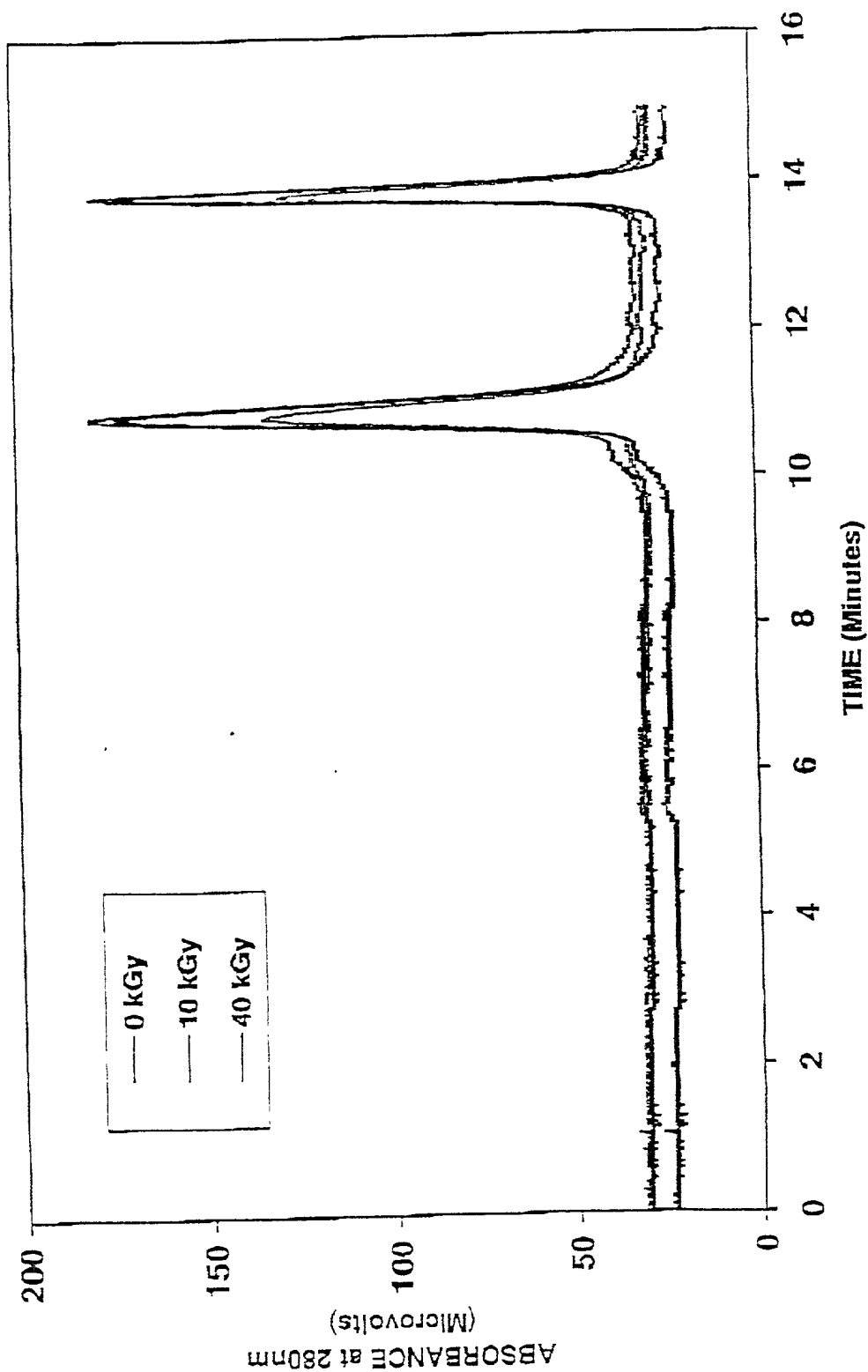
33D

Gamma Irradiation of 25% Albumin



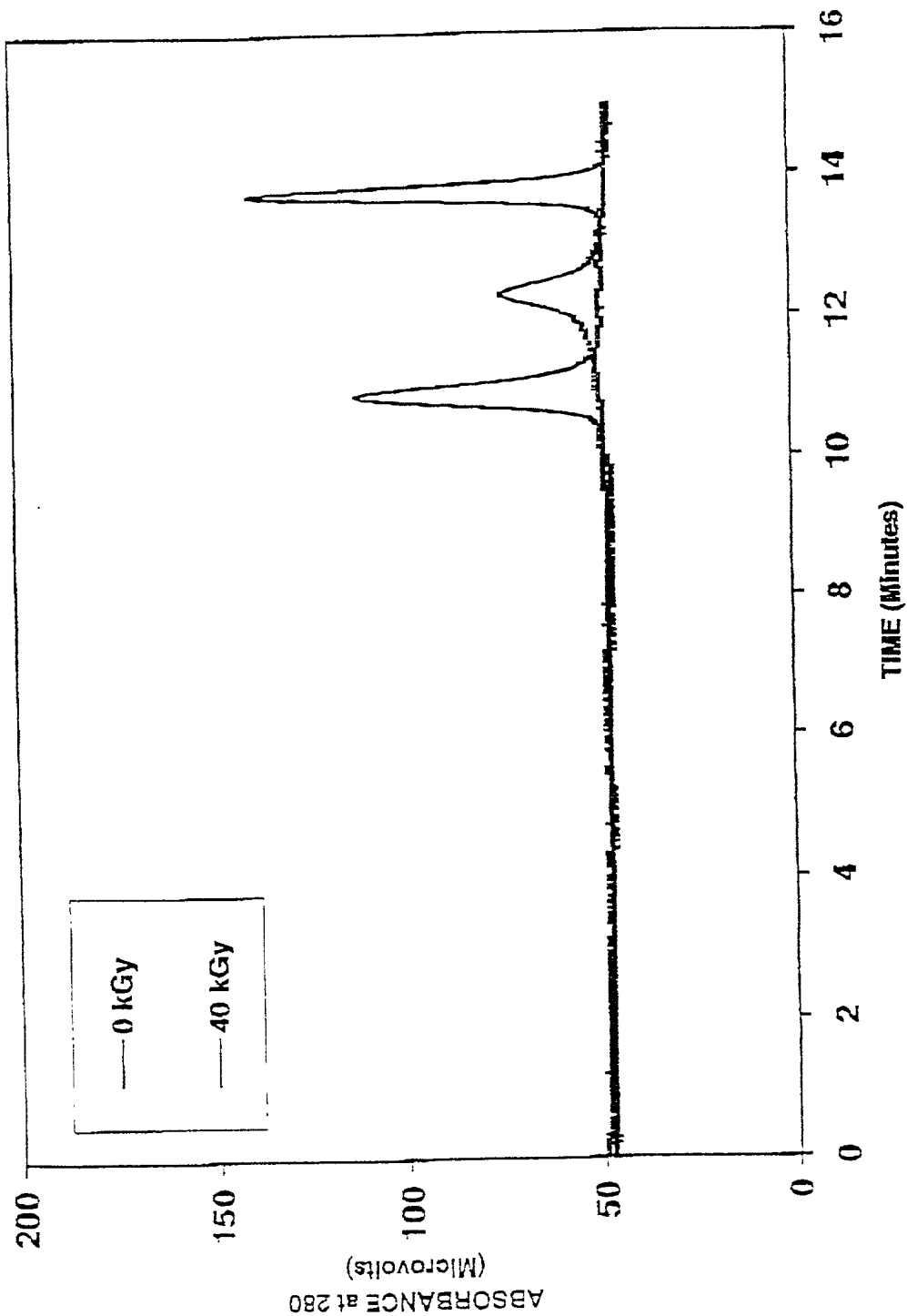
33F

Gamma Irradiation of Lyophilized Albumin



34A

Gamma Irradiation of Liquid Albumin



34B

25% Albumin - Non-Reduced

1 2 3 4 5 6 7 8 9 10 11 12

Std	Lane	Sample
Kd	1	Empty
	2	Broad Range Std. (BioRad)
200	3	Empty
116	4	0 Kgy (Control) Box 3C (- Ar)
97	5	18.0 Kgy (≈ 0.91 Kgy/hr) Box 1 (- Ar)
66	6	23.0 Kgy (≈ 0.92 Kgy/hr) Box 2 (- Ar)
45	7	30.4 Kgy (≈ 1.01 Kgy/hr) Box 3 (- Ar)
	8	0 Kgy (Control) Box 3C (- Ar)
31	9	18.0 Kgy (≈ 0.91 Kgy/hr) Box 1 (- Ar)
21.5	10	23.0 Kgy (≈ 0.92 Kgy/hr) Box 2 (- Ar)

35A

14.4 11 30.4 Kgy (≈ 1.01 Kgy/hr) Box 3 (- Ar)
12 Empty

25% Albumin - Reduced

1 2 3 4 5 6 7 8 9 10 11 12

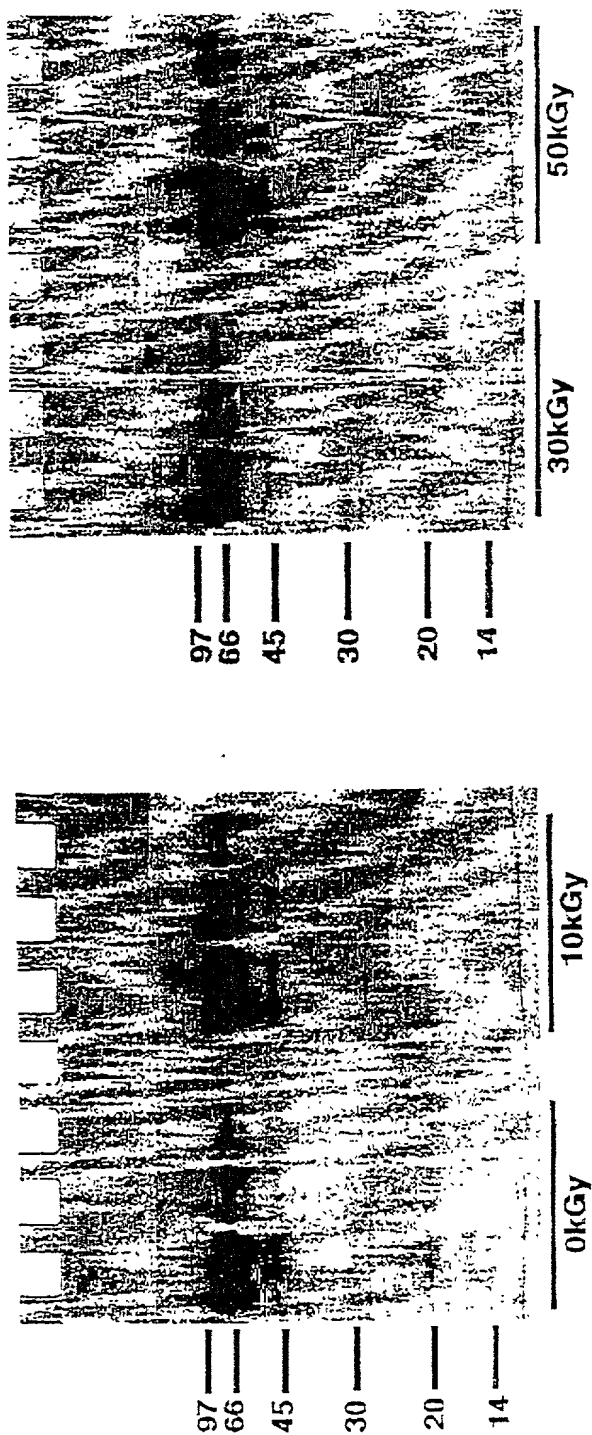
Std	Lane	Sample
Kd	1	Empty
	2	Broad Range Std. (BioRad)
200	3	Empty
116	4	0 Kgy (Control) Box 3C (- Ar)
97	5	18.0 Kgy (≈ 0.91 Kgy/hr) Box 1 (- Ar)
66	6	23.0 Kgy (≈ 0.92 Kgy/hr) Box 2 (- Ar)
45	7	30.4 Kgy (≈ 1.01 Kgy/hr) Box 3 (- Ar)
	8	0 Kgy (Control) Box 3C (- Ar)
31	9	18.0 Kgy (≈ 0.91 Kgy/hr) Box 1 (- Ar)
21.5	10	23.0 Kgy (≈ 0.92 Kgy/hr) Box 2 (- Ar)

35B

14.4 11 30.4 Kgy (≈ 1.01 Kgy/hr) Box 3 (- Ar)
12 Empty

Gamma Irradiation of Powder PPF at -20°C

Reduced

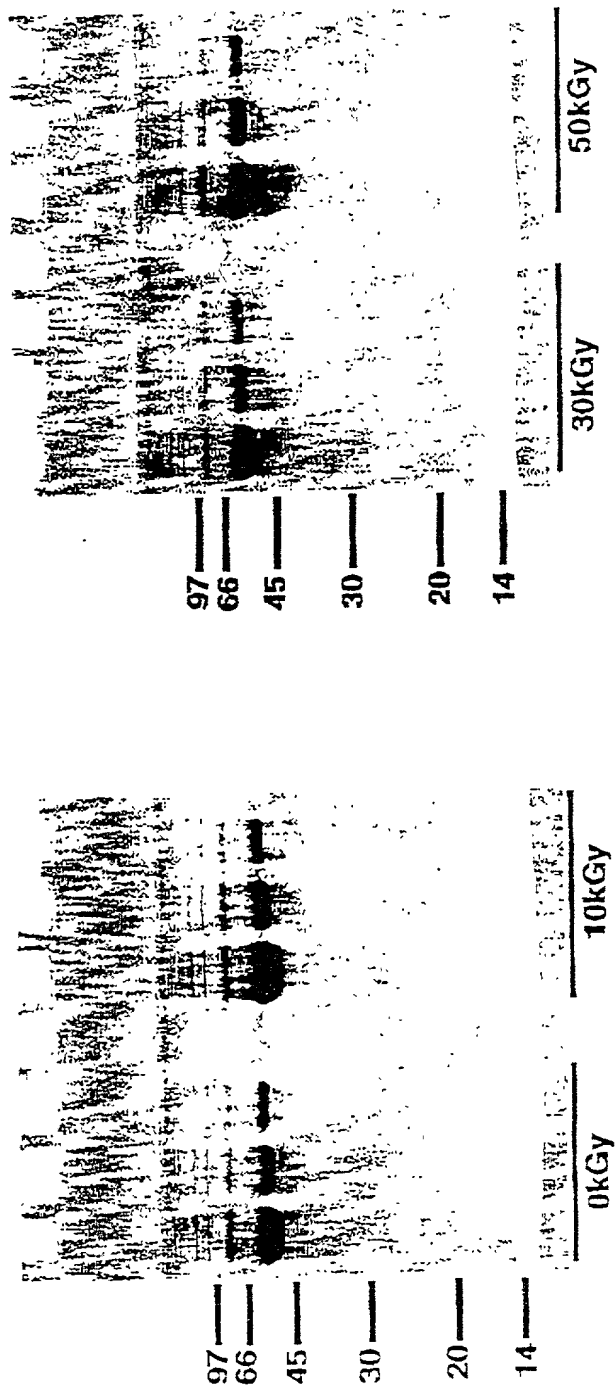


36A

Parameter	Value	Unit
Temperature	25.0	°C
Pressure	1.0	atm
Flow rate	1.0	L/min
Concentration	0.1	mol/L
pH	7.0	
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	

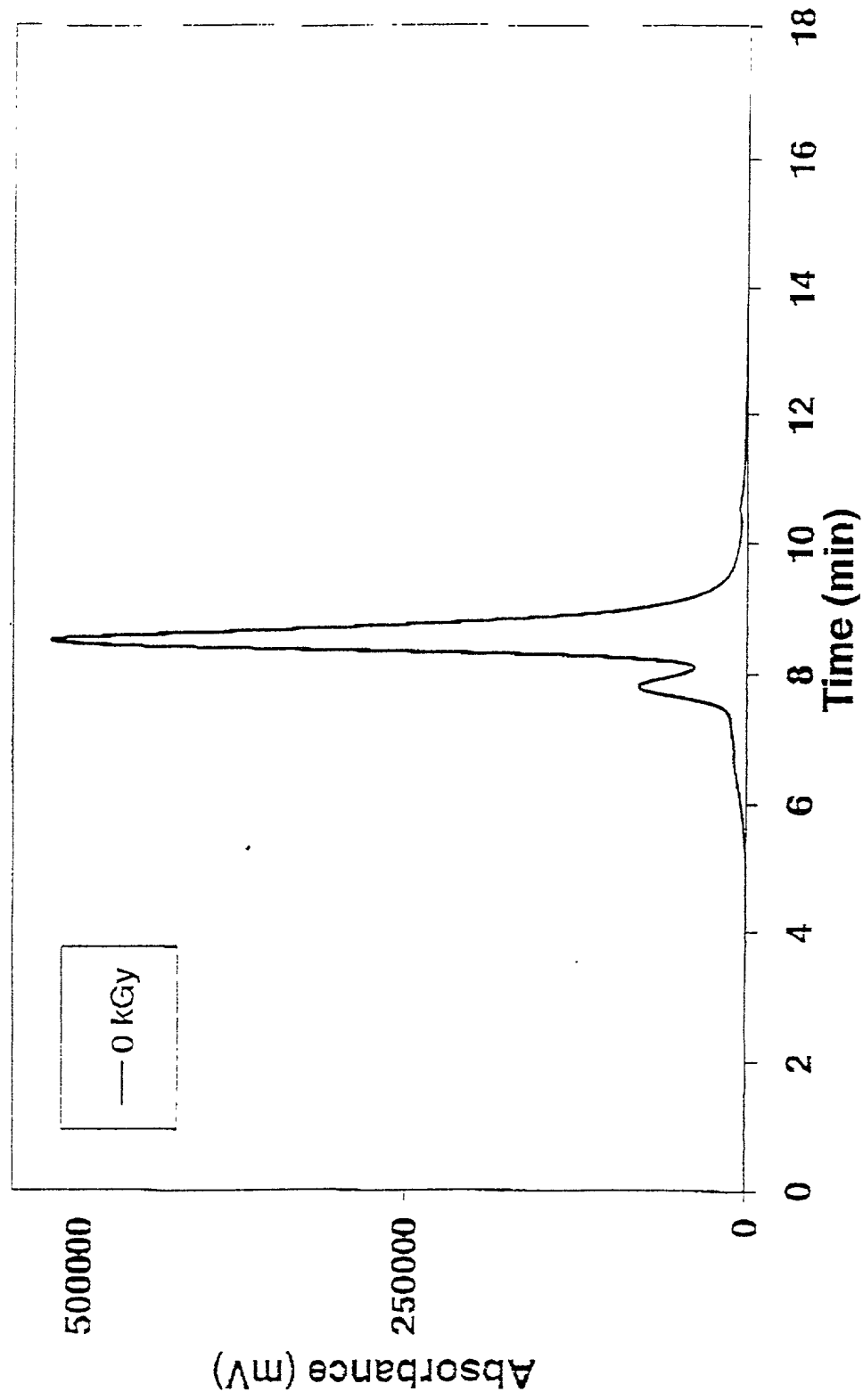
Gamma Irradiation of Powder PPF at -20°C

Nonreduced



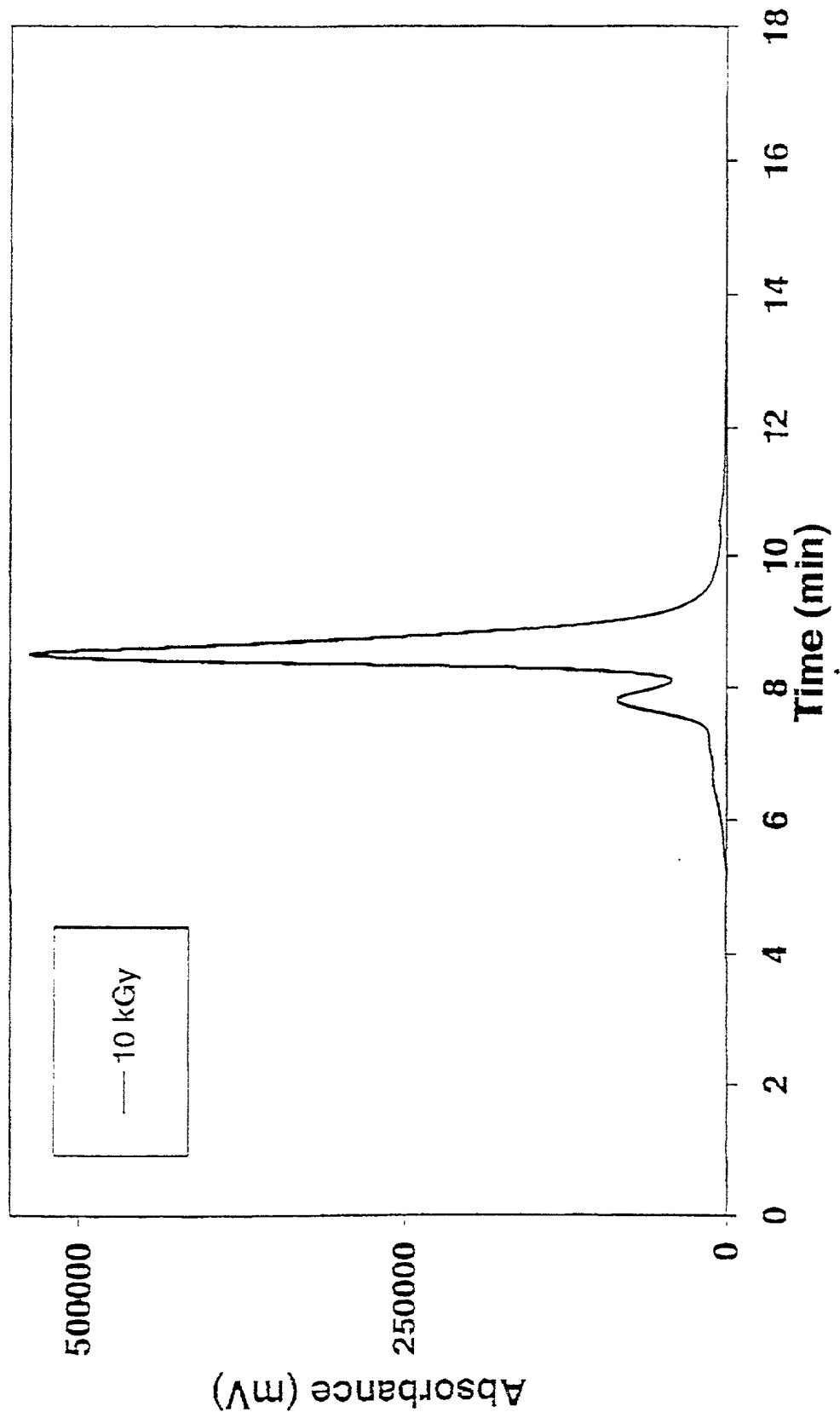
36B

Gamma Irradiation of Powder PPF



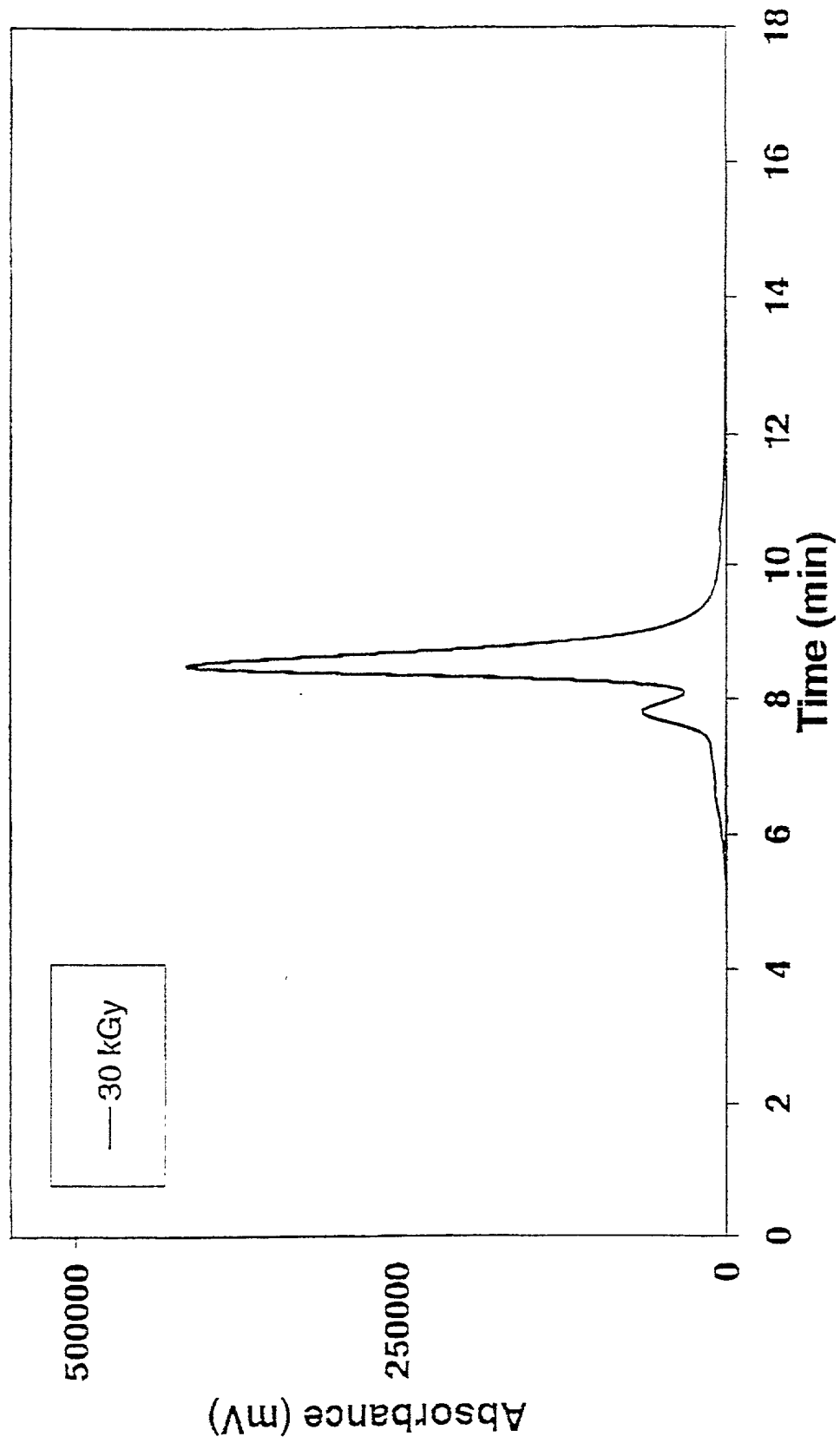
36C

Gamma Irradiation of Powder PPF



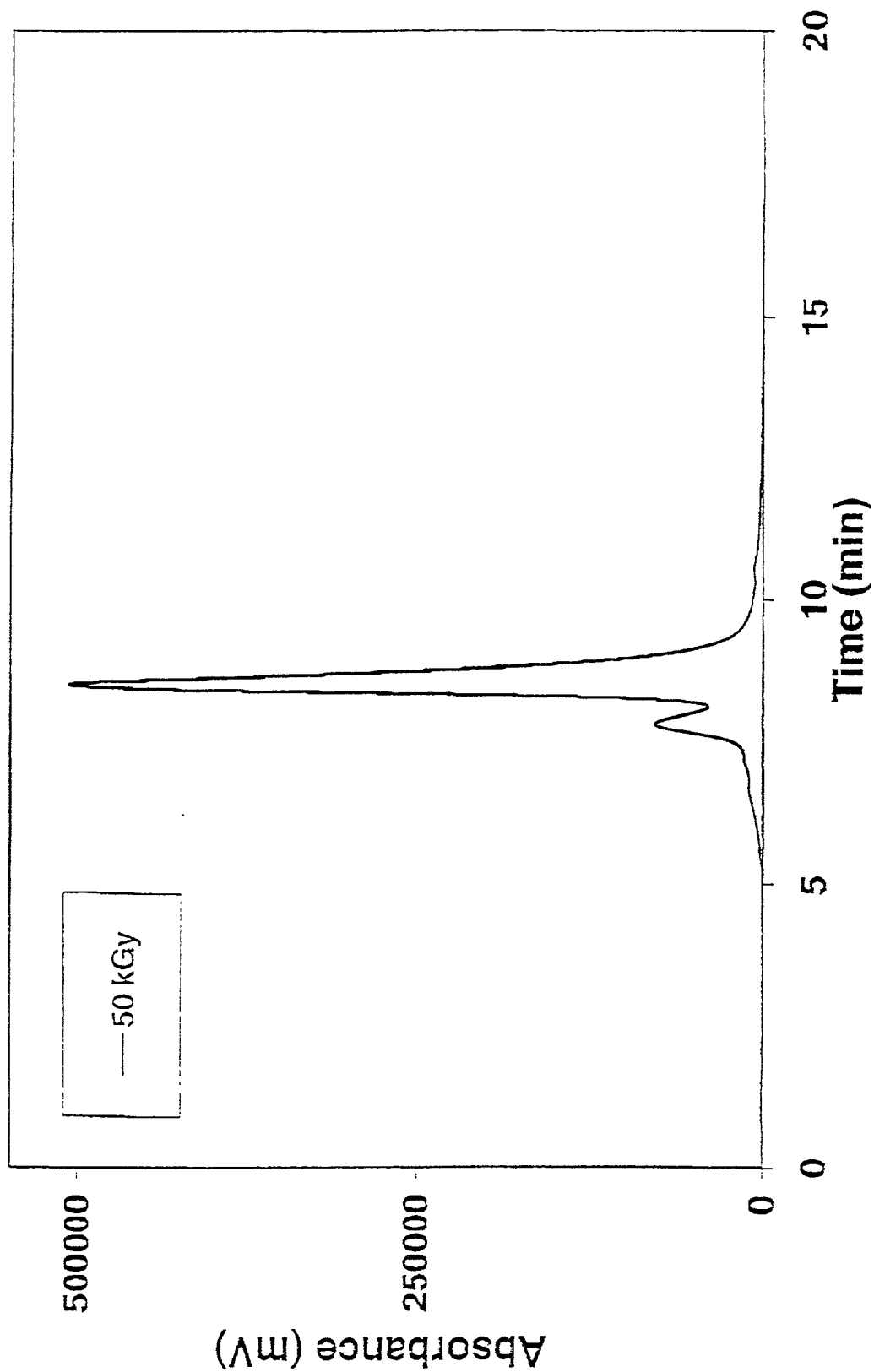
36D

Gamma Irradiation of Powder PPF



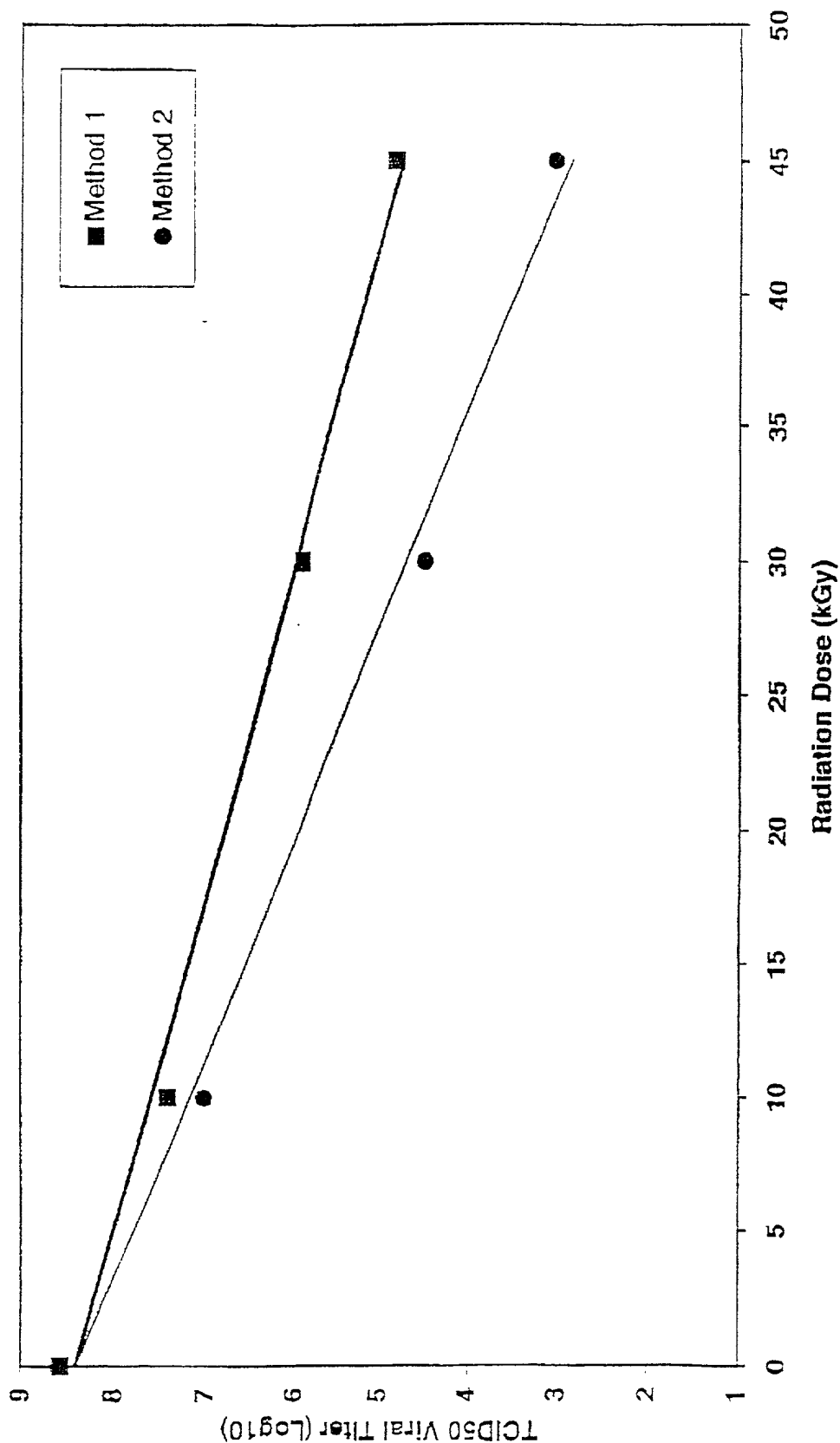
36E

Gamma Irradiation of Powder PPF



36F

Gamma Irradiation of PPV in PPF by Irradiation at -80oC

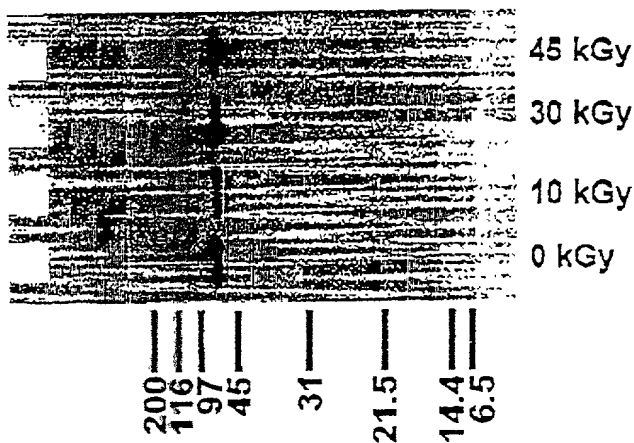
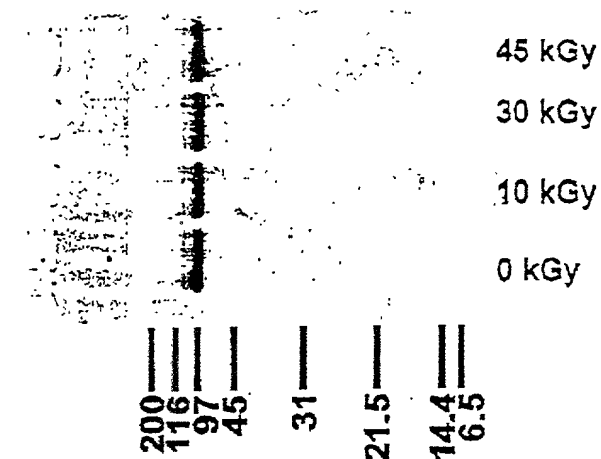


37A

Gamma Irradiation of PPF By Method 2

Reduced 12.5%

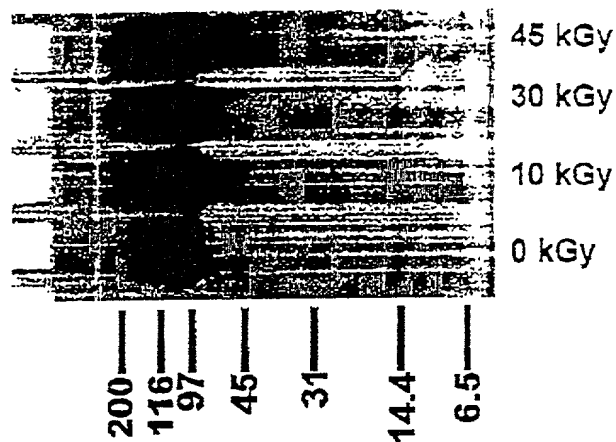
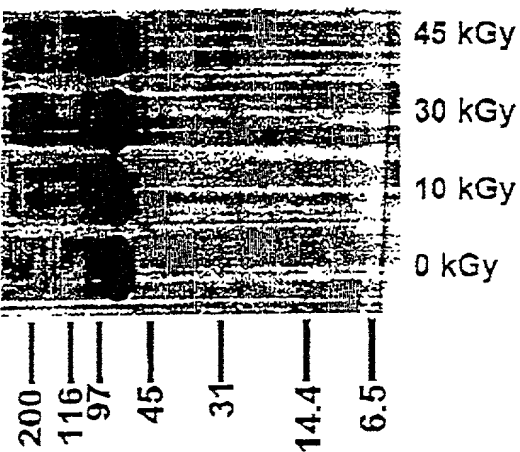
Nonreduced, 12.5%



37B

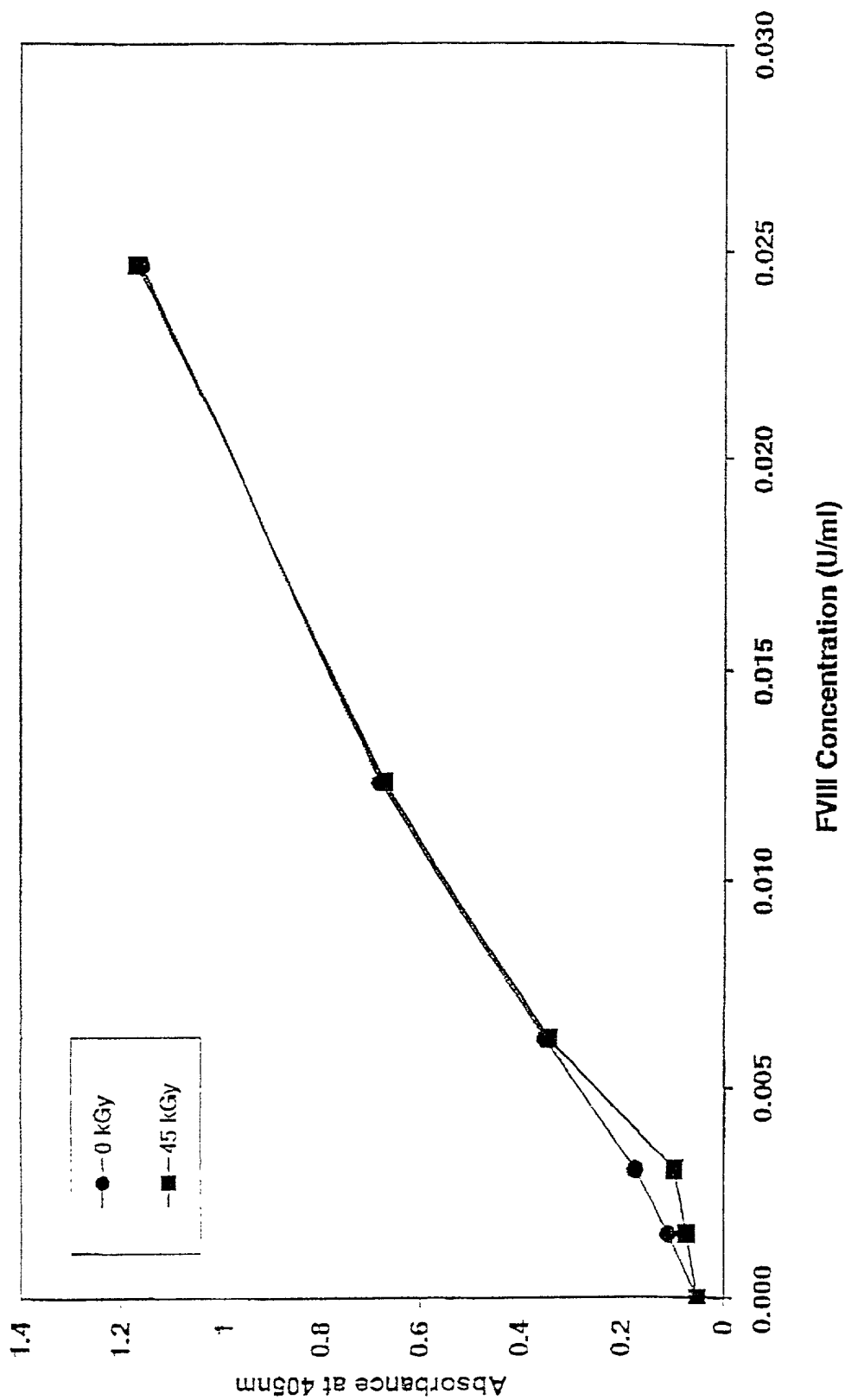
083101.alb.04/073001.jla.016 Gamma Irradiation of PPF By Method 1

Nonreduced, 12.5% Reduced, 12.5%

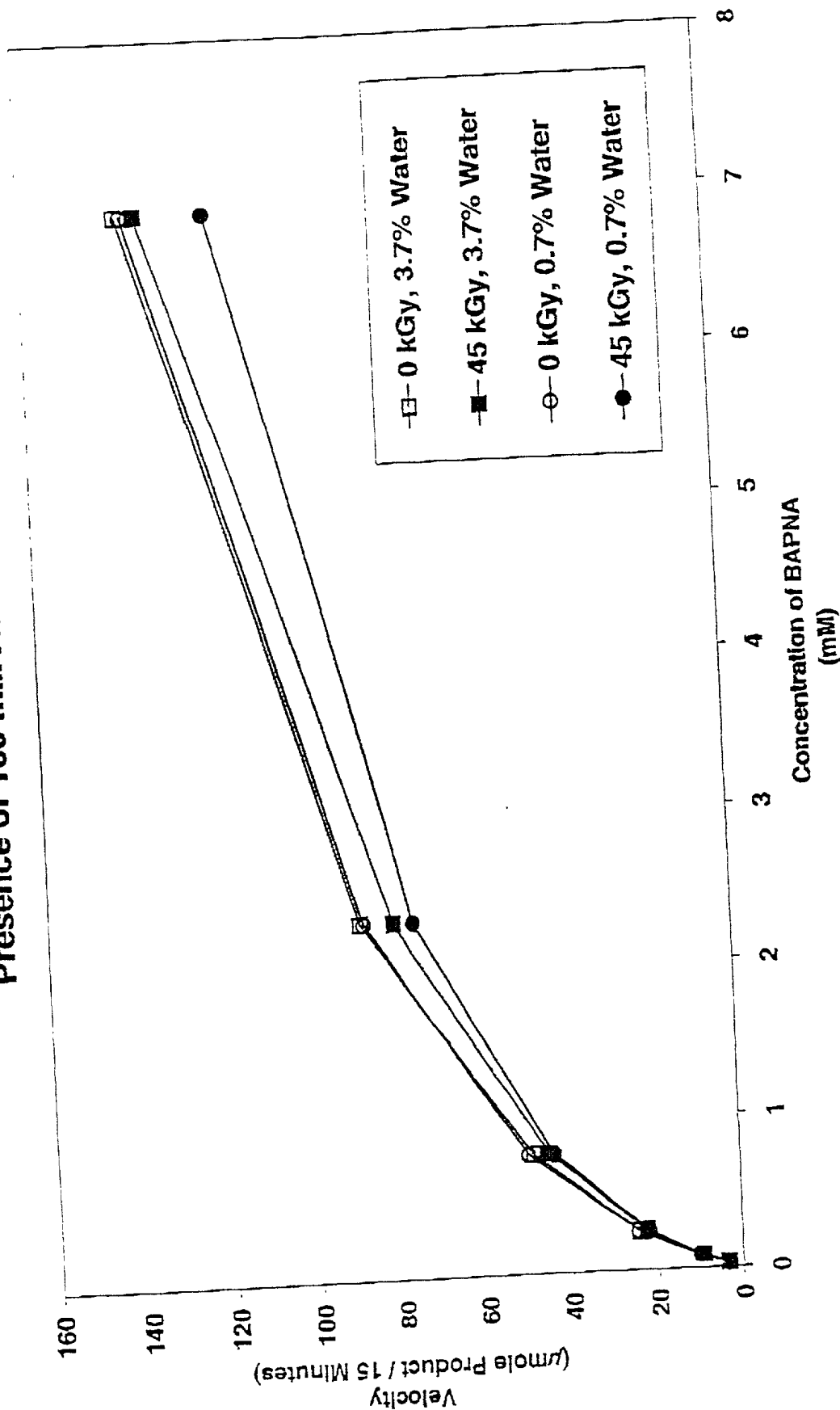


37C

Gamma Irradiation of FVIII

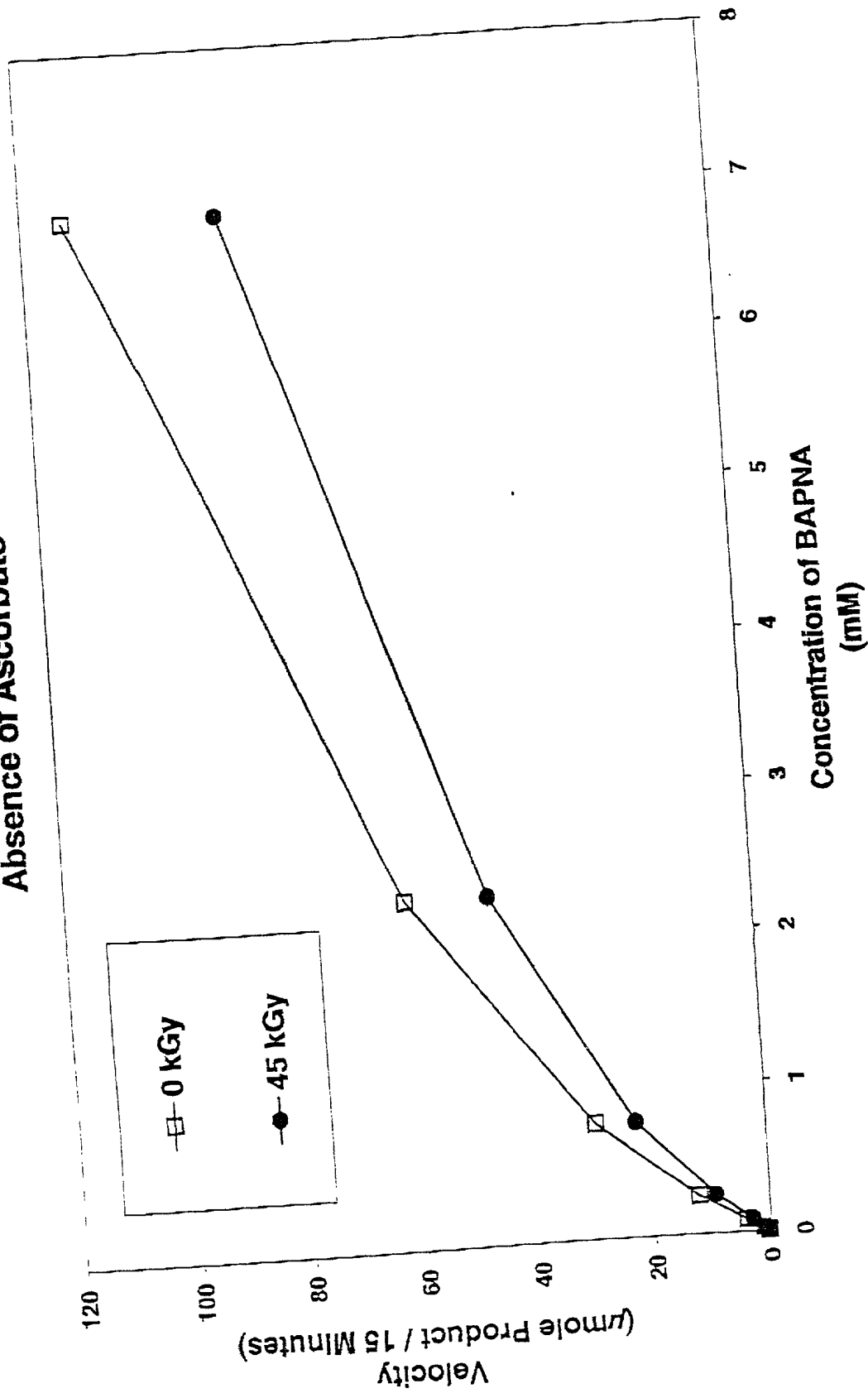


Gamma Irradiation of Lyophilized Trypsin In the Presence of 100 mM Ascorbate



39B

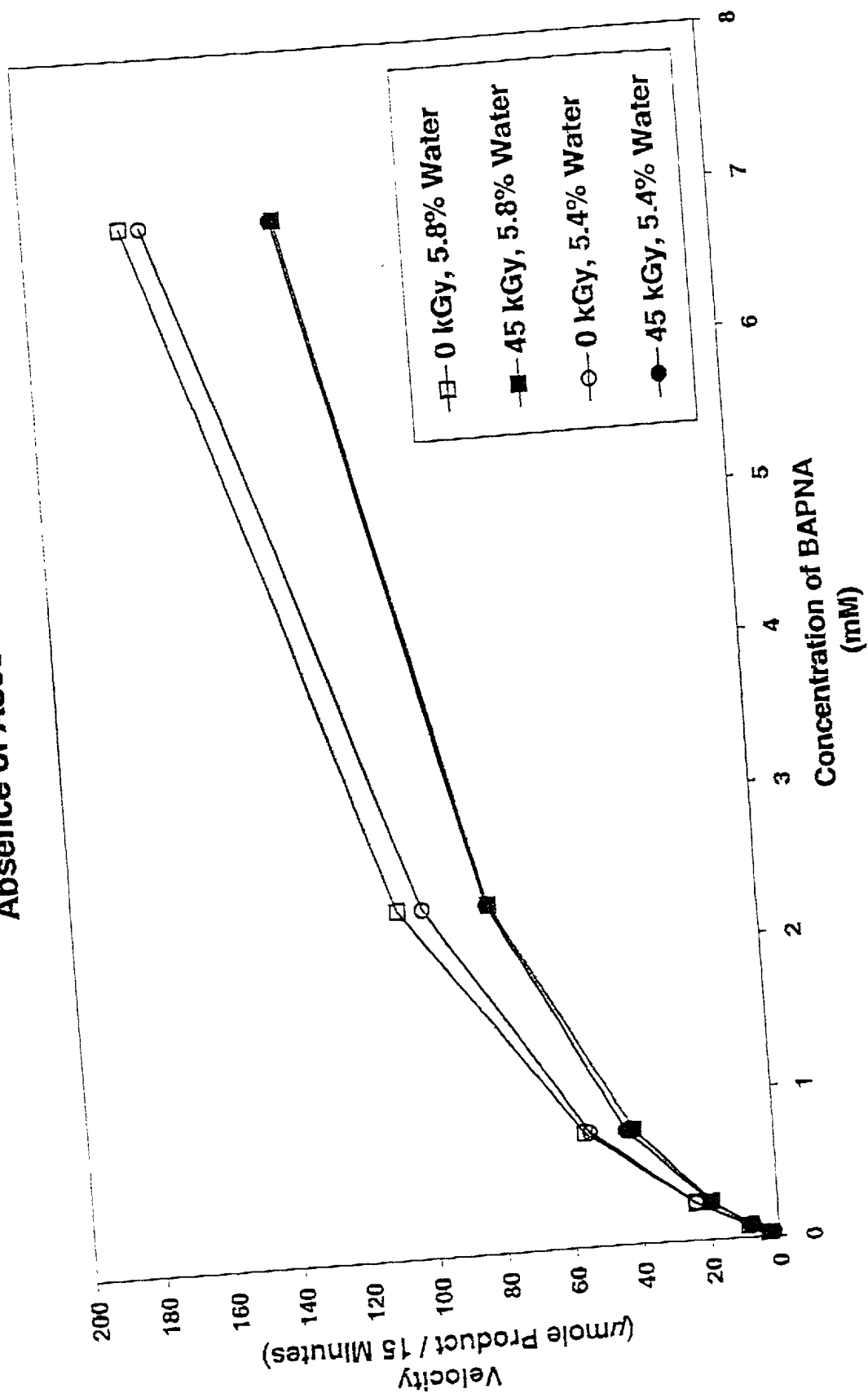
Gamma Irradiation of Lyophilized Trypsin in the Absence of Ascorbate



42A

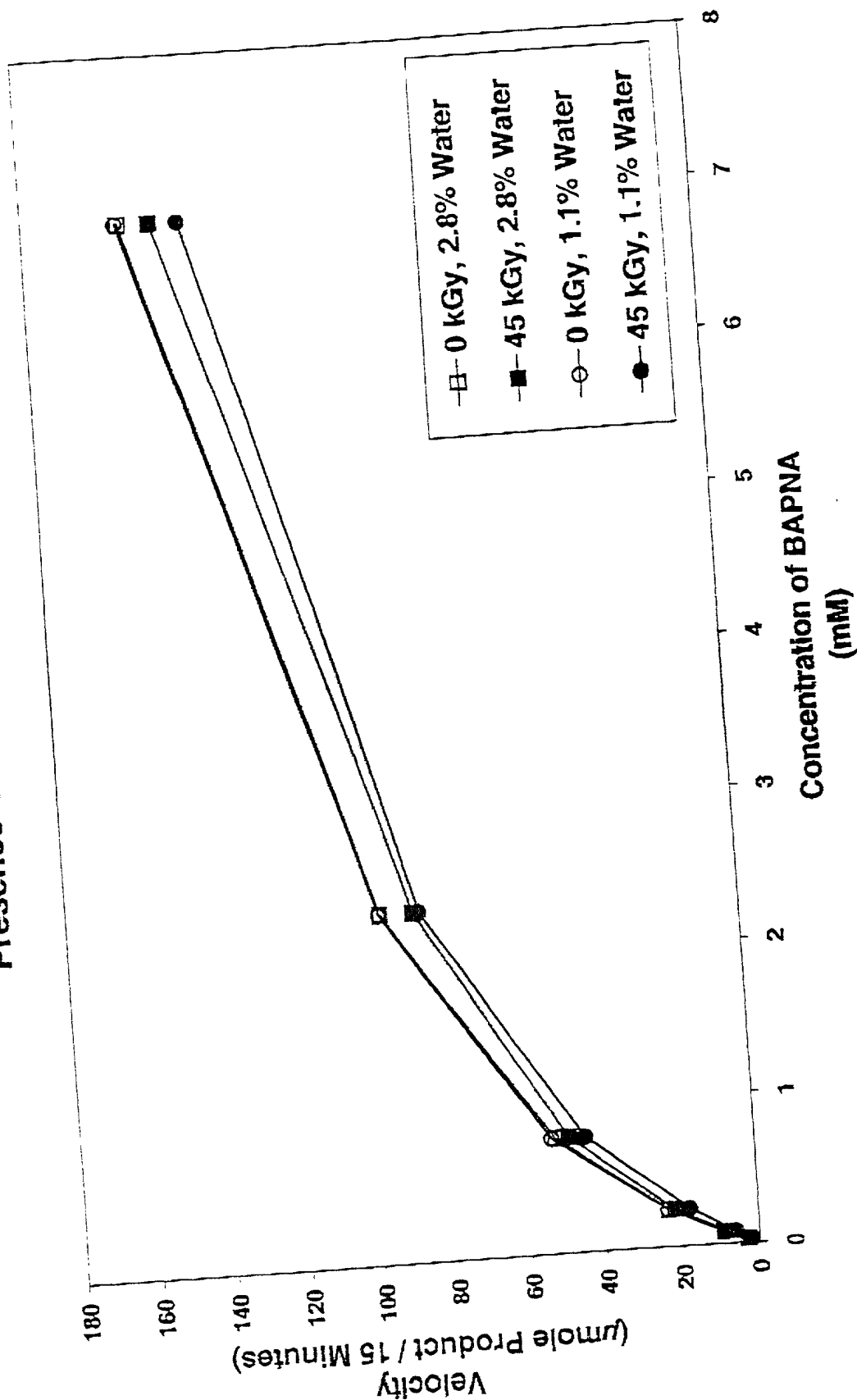


Gamma Irradiation of Lyophilized Trypsin In the Absence of Ascorbate



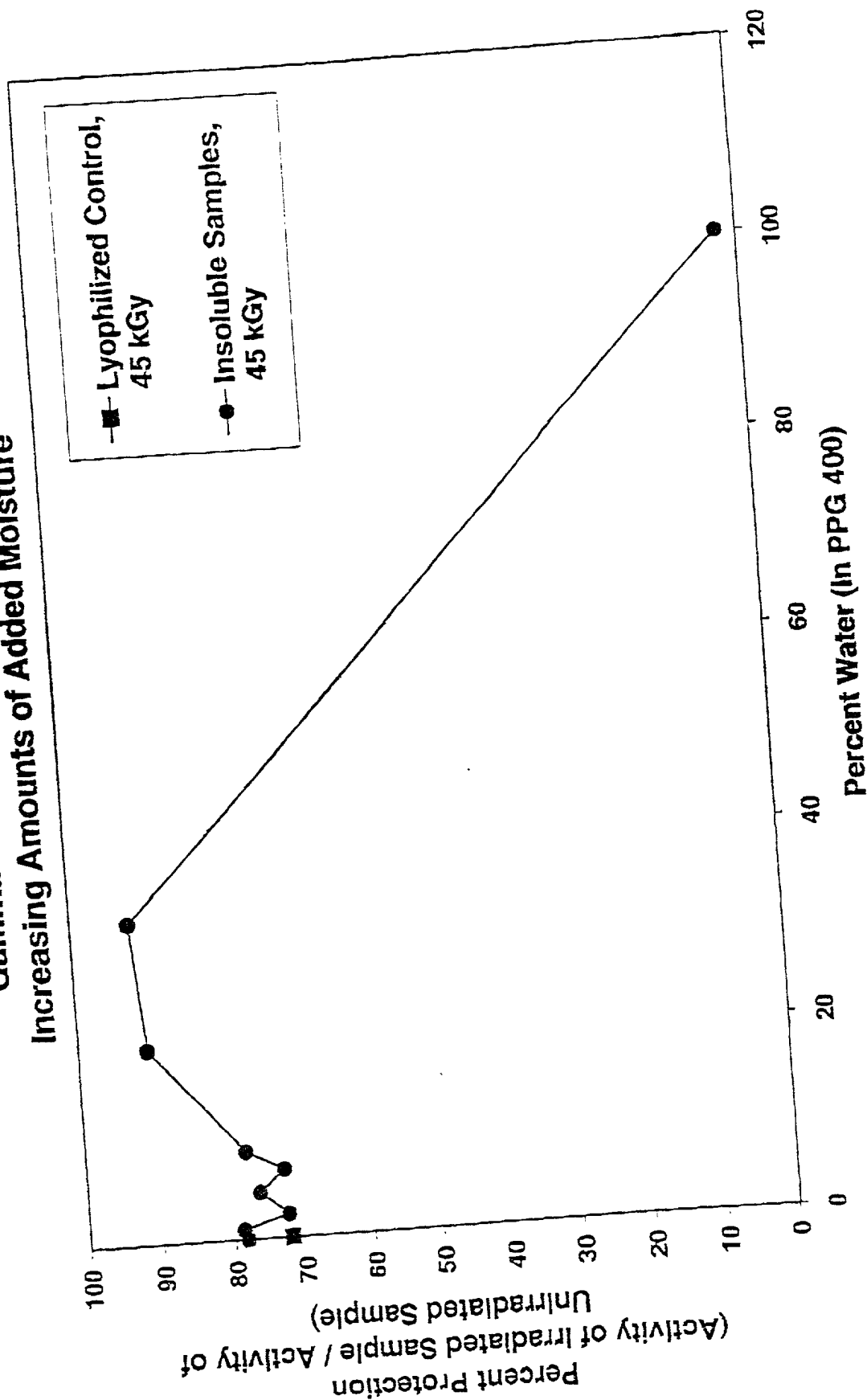
43A

Gamma Irradiation of Lyophilized Trypsin In the Presence of 100 mM Ascorbate

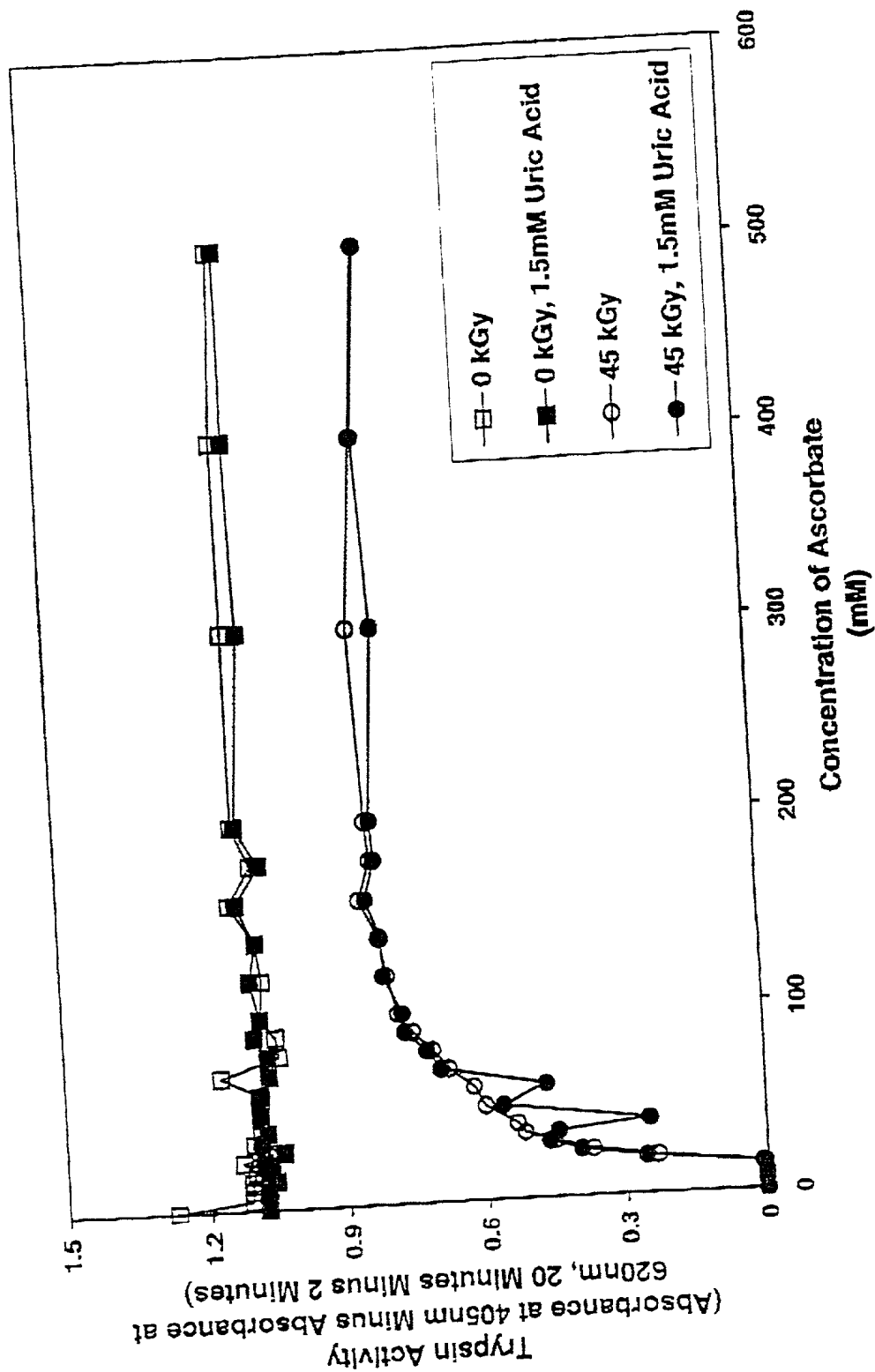


43B

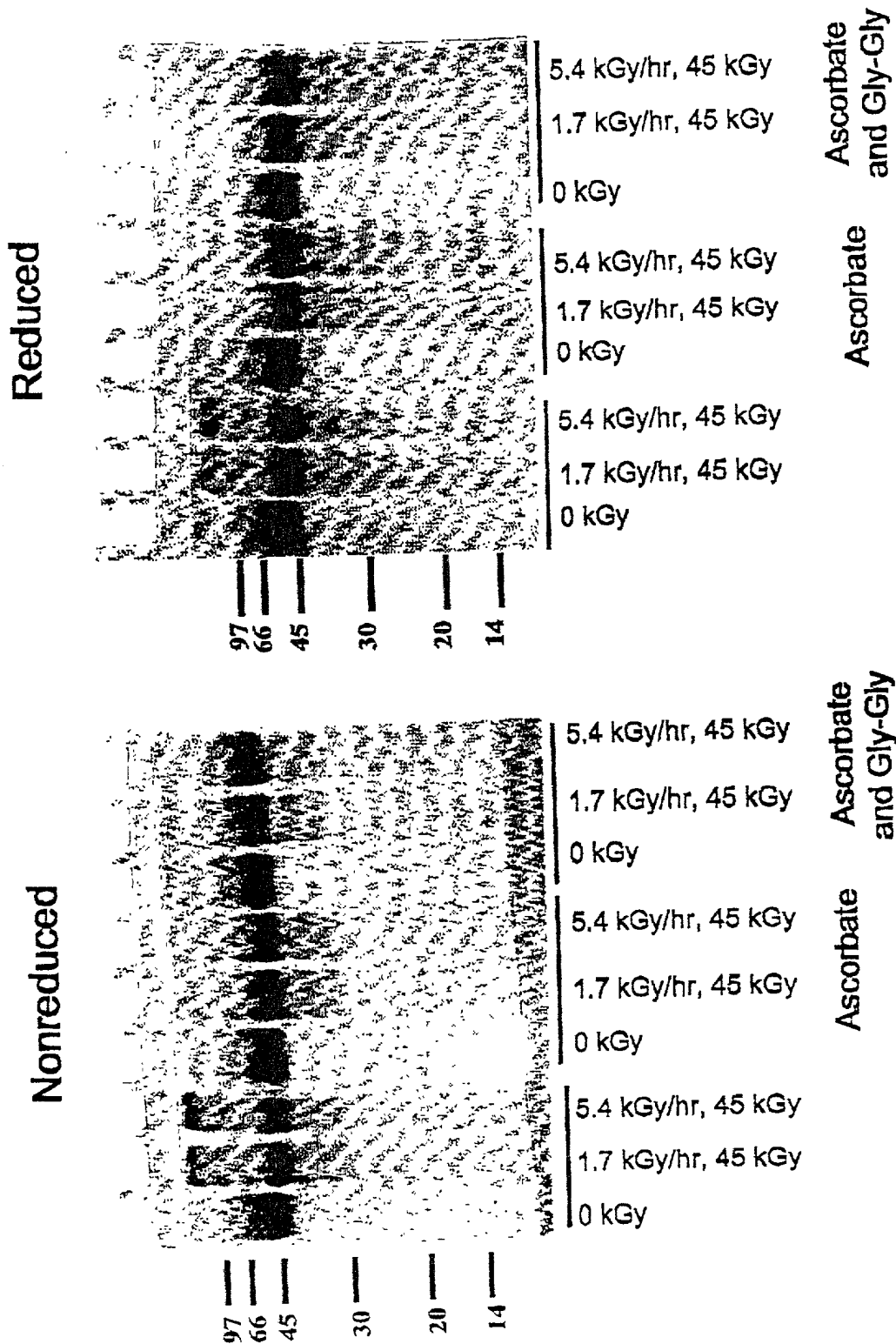
Gamma Irradiation of Trypsin In the Presence of Increasing Amounts of Added Moisture



Gamma Irradiation of Liquid Trypsin In the Presence of Increasing Concentrations of Ascorbate



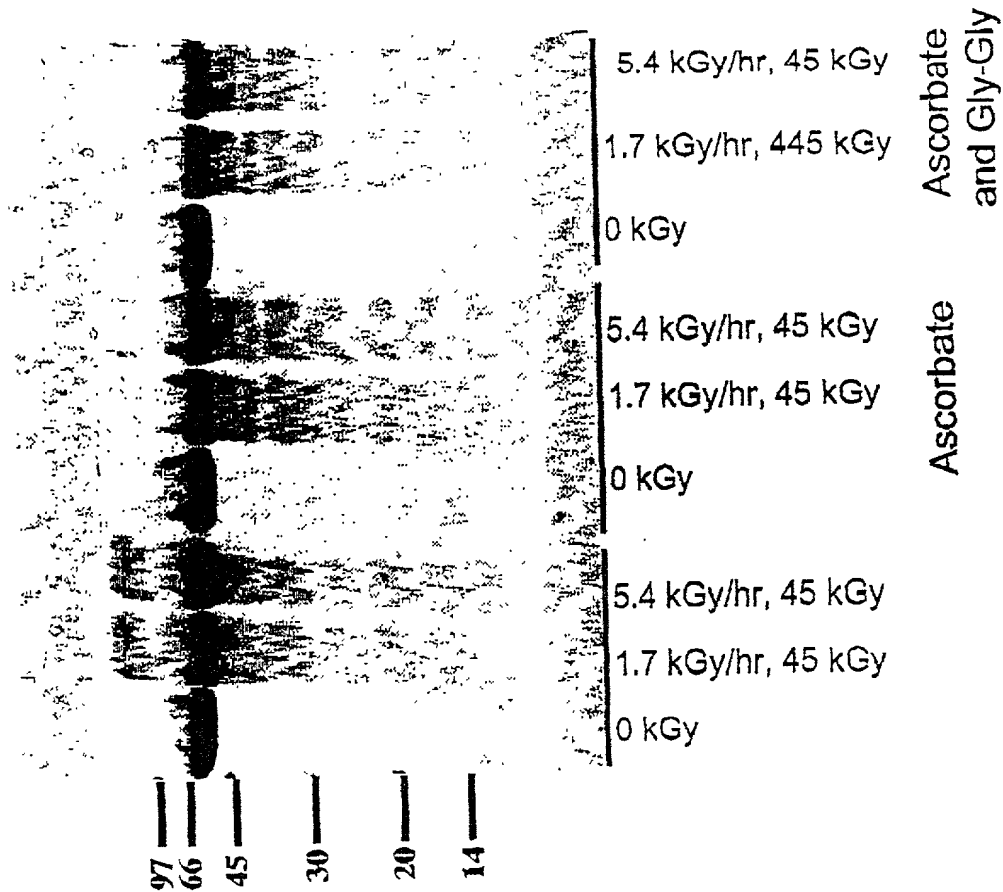
SDS-PAGE for a Glycosidase



46A

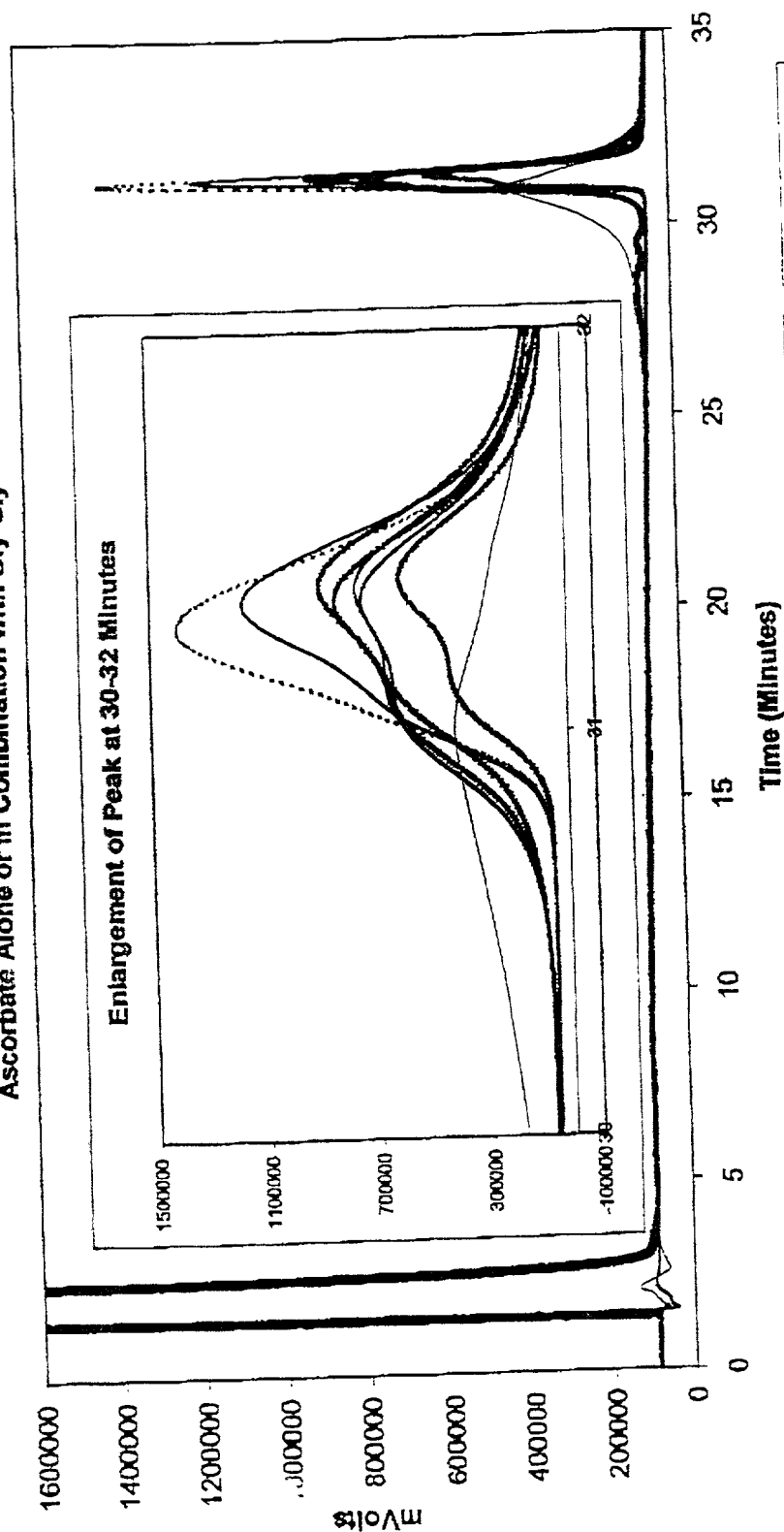
SDS-PAGE for a Sulfatase

Reduced



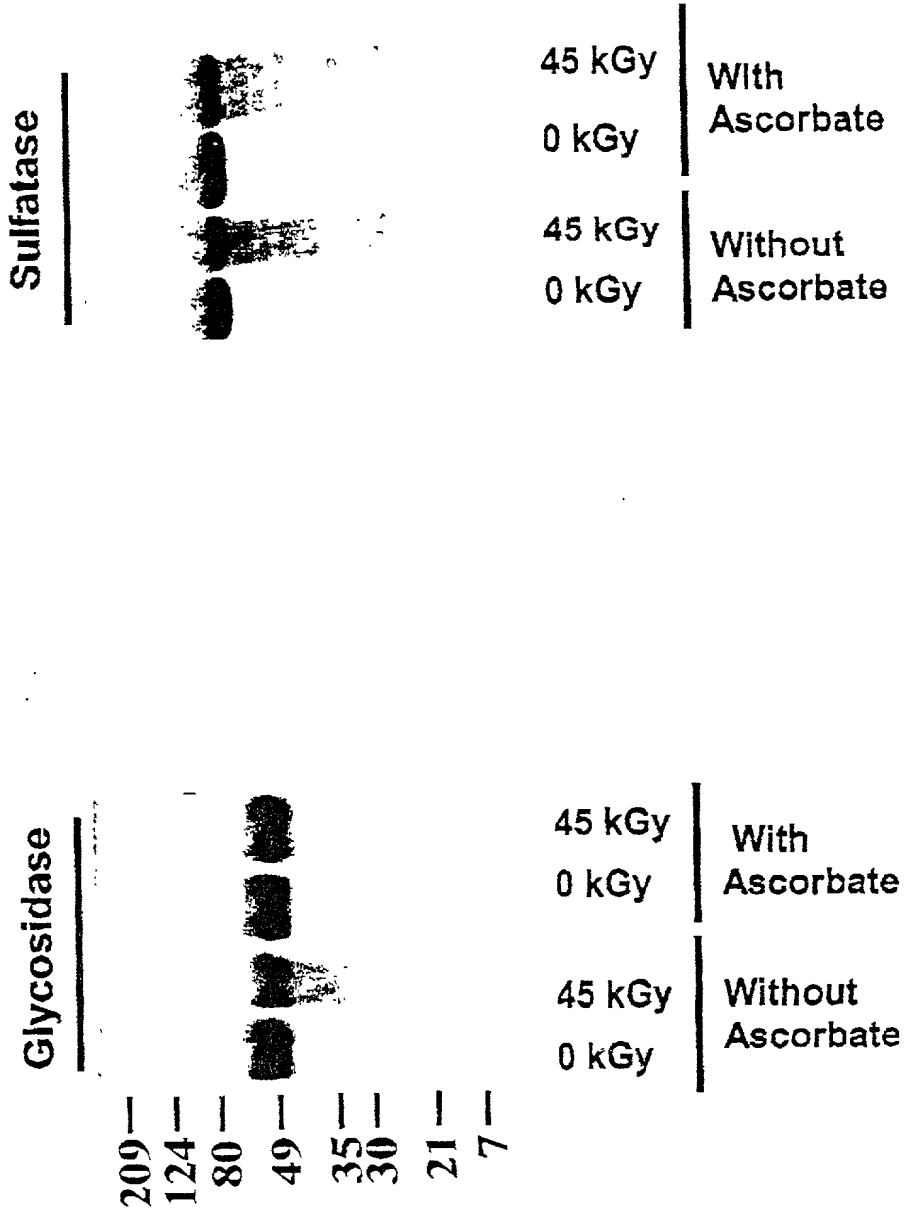
46B

Gamma Irradiation of a Glycosidase in the Presence or Absence of Ascorbate Alone or in Combination with Gly-Gly



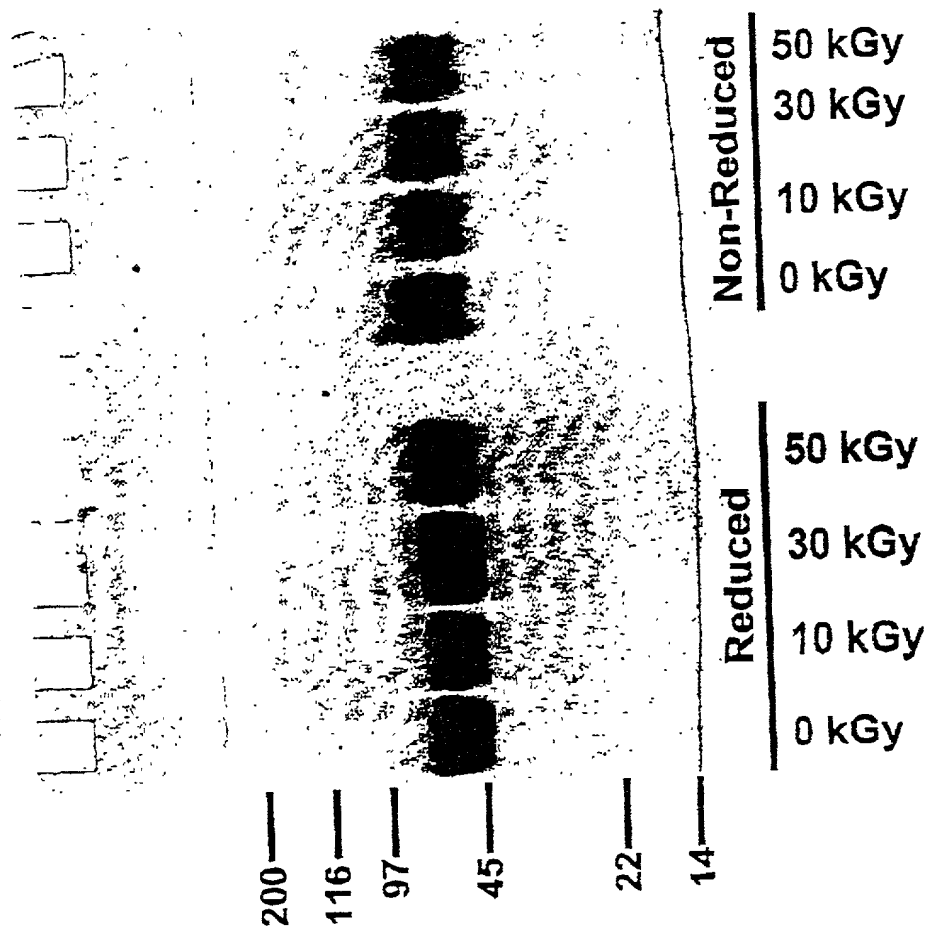
- 0 kGy
- Ascorbate, 0 kGy
- Ascorbate, 5.4 kGy/hr, 45 kGy
- Ascorbate and Gly-Gly, 1.7 kGy/hr, 45 kGy
- 5.4 kGy/hr, 45 kGy
- Ascorbate, 1.7 kGy/hr, 45 kGy
- Ascorbate and Gly-Gly, 0 kGy
- Ascorbate and Gly-Gly, 5.4 kGy/hr, 45 kGy

Gamma Irradiation of a Lyophilized Glycosidase and Sulfatase In the Absence and Presence of 100mM Ascorbate



Gamma Irradiation of a Lyophilized Glycosidase In the Absence of Stabilizers

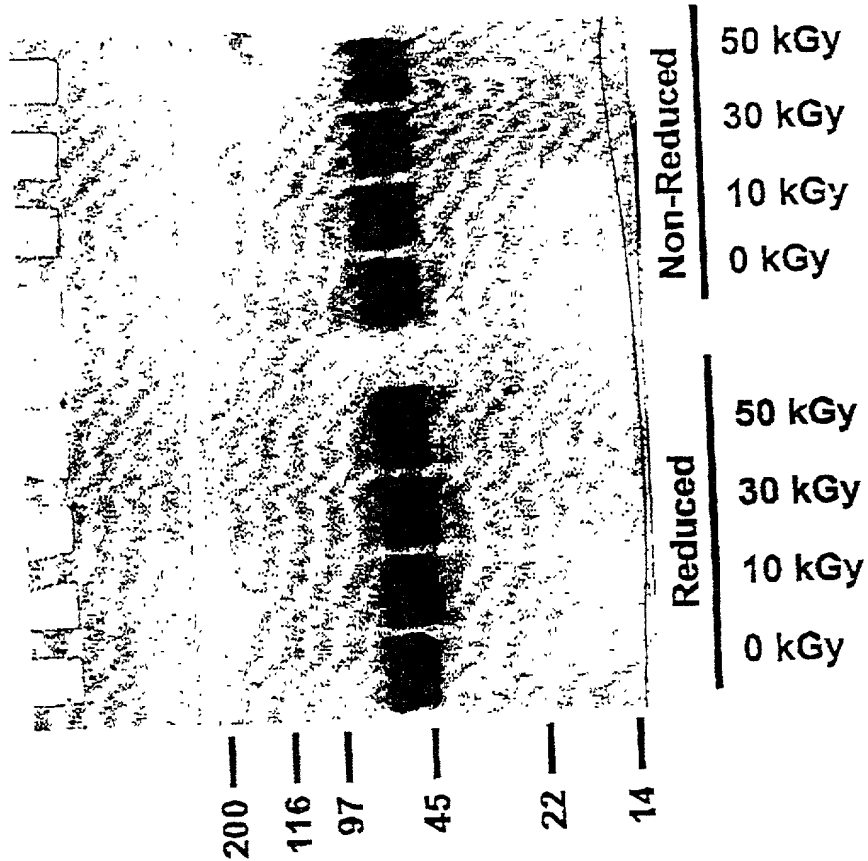
Reduced and Non-Reduced, 10%



49A

Gamma Irradiation of a Lyophilized Glycosidase In the Presence of 200mM Ascorbate

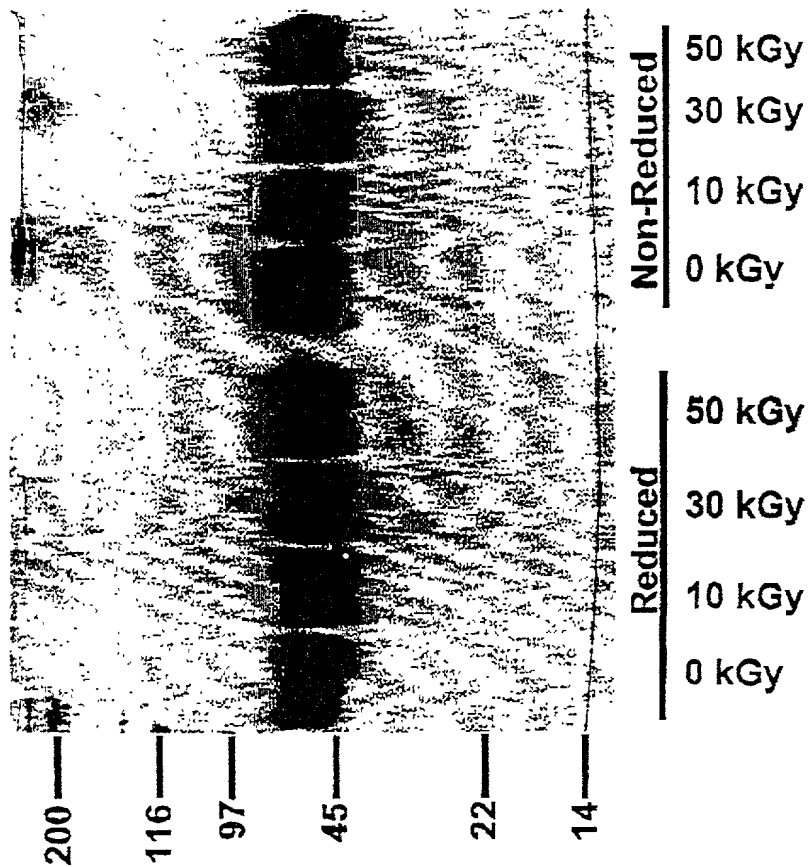
Reduced & Non-Reduced, 10%



49B

Gamma Irradiation of a Lyophilized Glycosidase In the Presence of 200mM Ascorbate and 200mM Gly-Gly

Reduced & Non-Reduced, 10%



49C